Polypropylene Pulse/High Frequency Capacitors

R75, Single Metallized Polypropylene Film, Radial, DC and Pulse Applications (Automotive Grade)

Overview

The R75 Series is constructed of metallized polypropylene film with radial leads of tinned wire. The radial leads are electrically welded to the metal layer on the ends of the capacitor winding. The capacitor is encapsulated in a self-extinguishing solvent resistant plastic case with thermosetting resin material meeting the UL 94 V–0 requirements. Two different winding constructions are used depending on voltage parameters and lead spacing. Please see the Performance Characteristics for more information.

Automotive grade devices (up to lead spacing 22.5 mm) meet the demanding Automotive Electronics Council's AEC–Q200 qualification requirements.

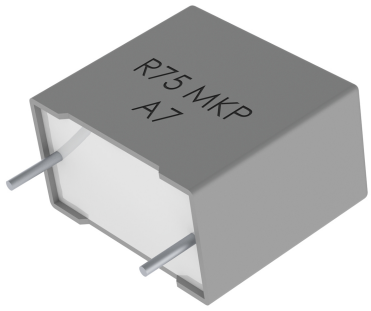
Applications

Typical applications include resonant circuit, high frequency medium to heigh current, silicon-controlled rectifier (SCR and IGBT) and SiC (e.g. MOSFET) commutation circuits as well as applications with high voltage and medium to high current and DC link.

Not suitable for across-the-line application (see Suppressor Capacitors).

Benefits

- Voltage range: 160 – 2,000 VDC
- Capacitance range: 220 pF – 33 µF
- Lead Spacing: 7.5 – 37.5 mm
- Capacitance tolerance: ±5%, ±10%, ±20%
- Climatic category: 55/105/56 IEC 60068–1
- Operating temperature range of –55˚C to +105˚C
- RoHS compliance and lead-free terminations
- Tape & Reel packaging in accordance with IEC 60286–2
- Self-healing
- Automotive (AEC–Q200) grades available up to lead spacing 22.5 mm



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Part Number System

R75	P	N	2820	AA	30		K
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use		Capacitance Tolerance
Metallized Polypropylene	G = 160 I = 250 M = 400 P = 630 Q = 1,000 R = 1,250 T = 1,600 U = 2,000	D = 7.5 F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 20 30 40	50 60 70 80 L0	J = ±5% K = ±10% M = ±20%

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Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
7.5	**Standard Lead and Packaging Options**		
	Bulk (Bag) – Short Leads	4 +2/–0	AA
	Ammo Pack	H_0 = 18.5 ±0.5	DQ
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel Ø 355 mm)	H_0 = 18.5 ±0.5	CK
	Bulk (Bag) – Short Leads	2.7 +0.5/–0	JA
	Bulk (Bag) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Bag) – Short Leads	4.0 +0.5/–0	JE
	Bulk (Bag) – Short Leads	3.2 +0.3/–0.2	JH
	Bulk (Bag) – Long Leads	18 ±1	JM
	Bulk (Bag) – Long Leads	17 +1/–2	Z3
10 15 22.5	**Standard Lead and Packaging Options**		
	Bulk (Bag) – Short Leads	4 +2/–0	AA
	Ammo Pack	H_0 = 18.5 ±0.5	DQ
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel Ø 355 mm)	H_0 = 18.5 ±0.5	GY
	Tape & Reel (Large Reel Ø 500 mm)	H_0 = 18.5 ±0.5	CK
	Bulk (Bag) – Short Leads	2.7 +0.5/–0	JA
	Bulk (Bag) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Bag) – Short Leads	10 ±1	JC
	Bulk (Bag) – Short Leads	4.0 +0.5/–0	JE
	Bulk (Bag) – Short Leads	3.2 +0.3/–0.2	JH
	Bulk (Bag) – Long Leads	18 ±1	JM
	Bulk (Bag) – Long Leads	30 +5/–0	40
	Bulk (Bag) – Long Leads	25 +2/–1	50
27.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/–0	AA
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel Ø 355 mm)	H_0 = 18.5 ±0.5	GY
	Tape & Reel (Large Reel Ø 500 mm)	H_0 = 18.5 ±0.5	CK
	Bulk (Tray) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Tray) – Short Leads	4.0 +0.5/–0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/–0.2	JH
	Bulk (Tray) – Long Leads	30 +5/–0	40
	Bulk (Tray) – Long Leads	25 +2/–1	50

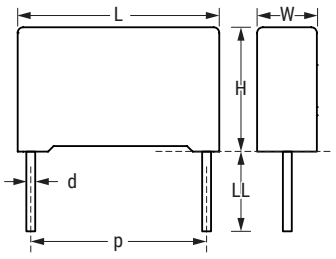
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Ordering Options Table cont.

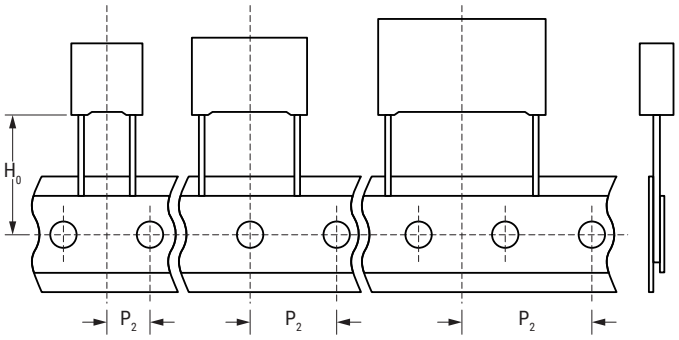
Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
37.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/–0	AA
	Other Lead and Packaging Options		
	Bulk (Tray) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Tray) – Short Leads	4.0 +0.5/–0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/–0.2	JH
	Bulk (Tray) – Long Leads	30 +5/–0	40
	Bulk (Tray) – Long Leads	25 +2/–1	50

Dimensions – Millimeters

Loose



Taped

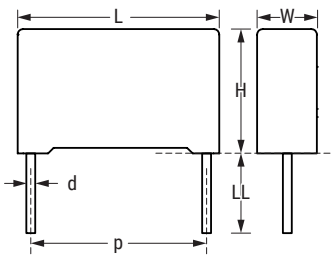


p		W		H		L		d	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
7.5	±0.4	3.0	+0.1	8.0	+0.1	10.0	+0.2	0.5	±0.05
7.5	±0.4	4.0	+0.1	9.0	+0.1	10.0	+0.2	0.5	±0.05
7.5	±0.4	5.0	+0.1	10.5	+0.1	10.0	+0.2	0.5	±0.05
7.5	±0.4	6.0	+0.1	12.0	+0.1	10.5	+0.2	0.5	±0.05
10.0	±0.4	4.0	+0.2	9.0	+0.1	13.0	+0.2	0.6	±0.05
10.0	±0.4	5.0	+0.2	11.0	+0.1	13.0	+0.2	0.6	±0.05
10.0	±0.4	6.0	+0.2	12.0	+0.1	13.0	+0.2	0.6	±0.05
15.0	±0.4	4.0	+0.2	10.0	+0.1	18.0	+0.3	0.8	±0.05
15.0	±0.4	5.0	+0.2	11.0	+0.1	18.0	+0.3	0.8	±0.05
15.0	±0.4	6.0	+0.2	12.0	+0.1	18.0	+0.3	0.8	±0.05
15.0	±0.4	7.5	+0.2	13.5	+0.1	18.0	+0.5	0.8	±0.05
15.0	±0.4	8.5	+0.2	14.5	+0.1	18.0	+0.5	0.8	±0.05

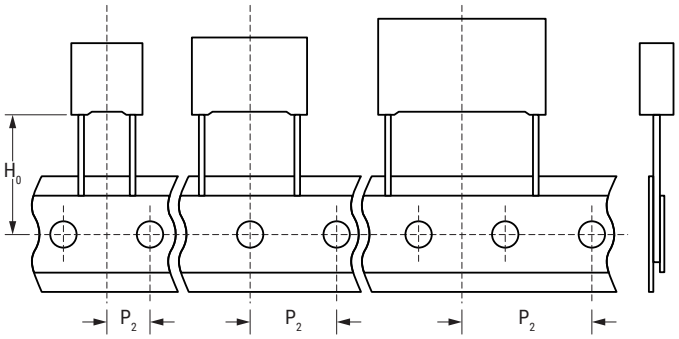
Note: See Ordering Options Table for lead length (LL/Ho) options.

Dimensions – Millimeters cont.

Loose



Taped



p		W		H		L		d	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
15.0	±0.4	9.0	+0.2	12.5	+0.1	18.0	+0.5	0.8	±0.05
15.0	±0.4	10.0	+0.2	16.0	+0.1	18.0	+0.5	0.8	±0.05
15.0	±0.4	11.0	+0.2	19.0	+0.1	18.0	+0.5	0.8	±0.05
15.0	±0.4	13.0	+0.1	12.0	+0.1	18.0	+0.5	0.8	±0.05
22.5	±0.4	6.0	+0.2	15.0	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	7.0	+0.2	16.0	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	8.5	+0.2	17.0	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	10.0	+0.2	18.5	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	11.0	+0.2	20.0	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	13.0	+0.1	22.0	+0.1	26.5	+0.3	0.8	±0.05
27.5	±0.4	9.0	+0.2	17.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	11.0	+0.2	20.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	13.0	+0.2	22.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	13.0	+0.2	25.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	14.0	+0.2	28.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	18.0	+0.2	33.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	22.0	+0.2	37.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	24.0	+0.2	15.0	+0.1	32.0	+0.3	0.8	±0.05
37.5	±0.4	11.0	+0.3	22.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	13.0	+0.3	24.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	16.0	+0.3	28.5	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	19.0	+0.3	32.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	20.0	+0.3	40.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	24.0	+0.3	44.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	24.0	+0.3	15.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	24.0	+0.3	19.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	30.0	+0.3	45.0	+0.1	41.5	+0.3	1.0	±0.05

Note: See Ordering Options Table for lead length (LL/Ho) options.

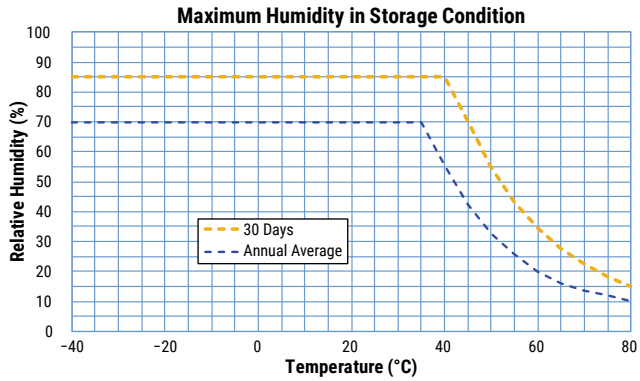
Performance Characteristics

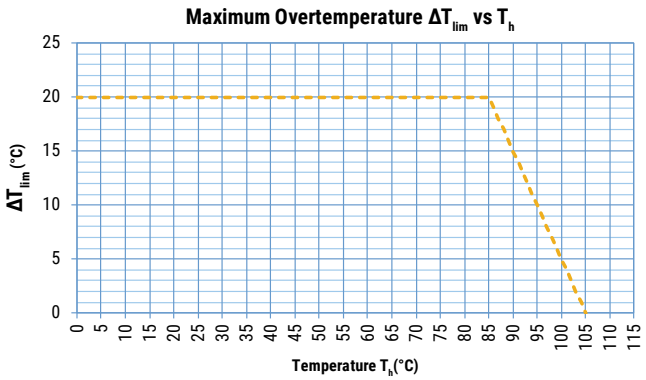
Dielectric	Polypropylene film												
Plates	Metal layer deposited by evaporation under vacuum												
Winding	Non-inductive type												
Leads	Tinned wire												
Protection	Plastic case, thermosetting resin filled. Box material is solvent resistant and flame retardant according to UL94.												
Related Documents	IEC 60384–16												
Sections	1									3			
Rated Voltage V_R (VDC)	160	160	250	250	400	400	630	630	1,000	1,000	1,250	1,600	2,000
Rated Voltage V_R (VAC)	70	90	140	160	200	220	220	250	250	400	600	650	700
Capacitance Range (µF)	0.1 – 0.33	0.068 – 33	0.068 – 0.22	0.027 – 33	0.027 – 0.068	0.01 – 15	0.01 – 0.027	0.001 – 8.2	0.012 – 3.9	0.00022 – 0.0082	0.0082 – 2.2	0.0039 – 1.5	0.001 – 1
Capacitance Values	E12 series (IEC 60063) measured at 1 kHz and +20 ±1°C												
Capacitance Tolerance	±5%, ±10%, ±20%												
Operating Temperature Range	–55°C to +105°C												
Rated Temperature T_R	+85°C												
Voltage Derating	Above +85°C DC voltage derating is 2%/°C and AC voltage derating is 1.25%/°C												
Climatic Category	55/105/56 IEC 60068–1												
Storage Conditions	Storage time: ≤ 24 months from the date marked on the label package												
	Average relative humidity per year ≤ 70%												
	RH ≤ 85% for 30 days randomly distributed throughout the year												
	Dew is absent												
	Temperature: –40 to 80°C (see "Maximum Humidity in Storage Conditions" graph above)												
Test Voltage	1.6 x V_R VDC for 2 seconds (between terminations) at +25°C ±5°C												
Capacitance Drift	Maximum 0.5% after a 2 year storage period at a temperature of +10°C to +40°C and a relative humidity of 40% to 60%												
Maximum Pulse Steepness	dV/dt according to Table 1. For working voltages lower than rated voltage ($V < V_R$), the specified dV/dt can be multiplied by the factor V_R/V.												
Reliability (Reference MIL–HDBK–217)	Operational life > 200,000 hours at 85°C Failure rate ≤ 1 FIT, T = +40°C, V = 0.5 x V_R Failure criteria: open or short circuit, capacitance change > 10%, DF 2 times the catalog limits, IR < 0.005 x initial limit												
Temperature Coefficient	–(200 ±100) ppm/°C at 1 kHz												
Self Inductance (Lead Length ~ 2 mm)	Lead Spacing (mm)	7.5	10	15	22.5	27.5	37.5						
	L (nH) ≈	8	9	10	16	18	20						
	Maximum 1 nH per 1 mm lead and capacitor length.												

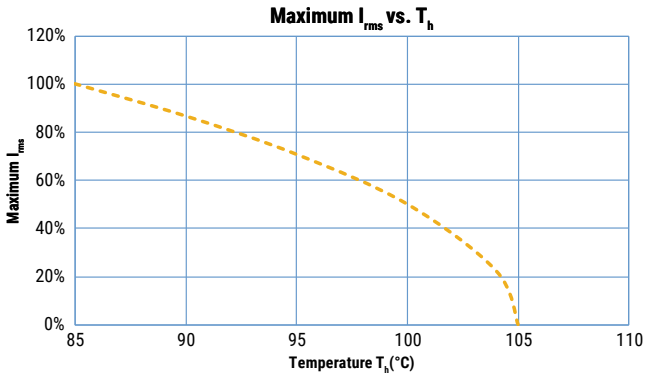
Performance Characteristics cont.

Dissipation Factor tanδ	Maximum Values at 25°C ±5°C				
	Frequency	C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF	1.0 µF < C ≤ 4.7 µF	C > 4.7 µF
	1 kHz	0.04%	0.05%	0.06%	0.10%
	10 kHz	0.06%	0.08%	-	-
	100 kHz	0.25%	-	-	-
Insulation Resistance	Measured at +25°C ±5°C, 100 VDC 60 seconds				
	Minimum Values Between Terminals				
	C ≤ 0.33 µF			C > 0.33 µF	
	≥ 100,000 MΩ (≥ 500,000 MΩ)*			≥ 30,000 MΩ • µF (≥ 150,000 MΩ • µF)*	

** Typical value*





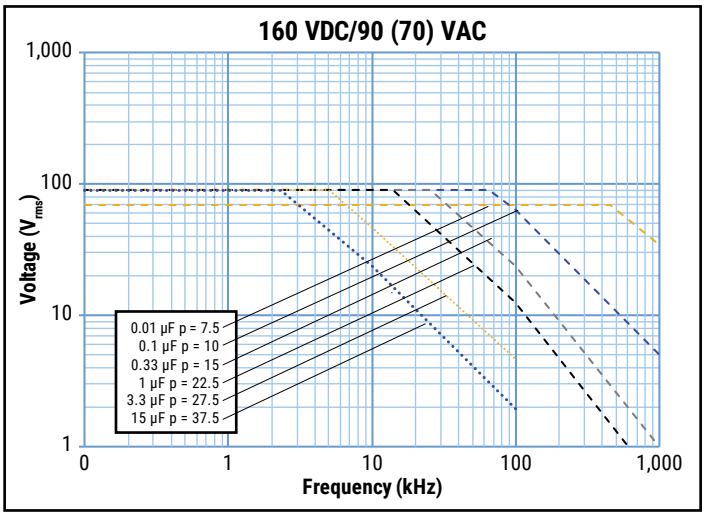


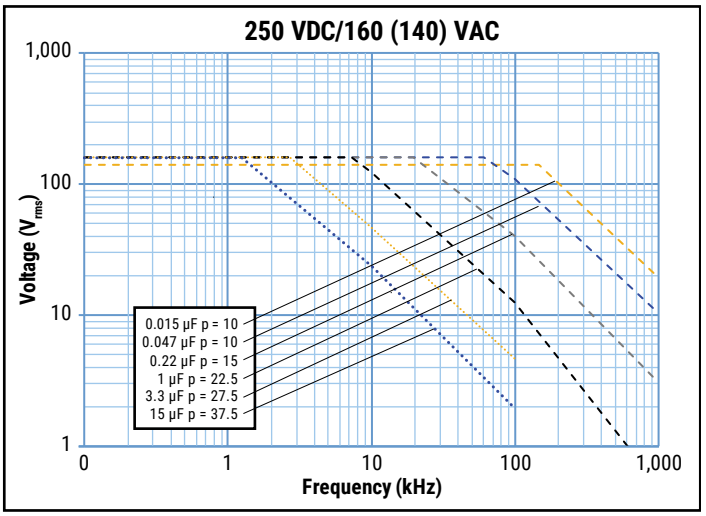
T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C.

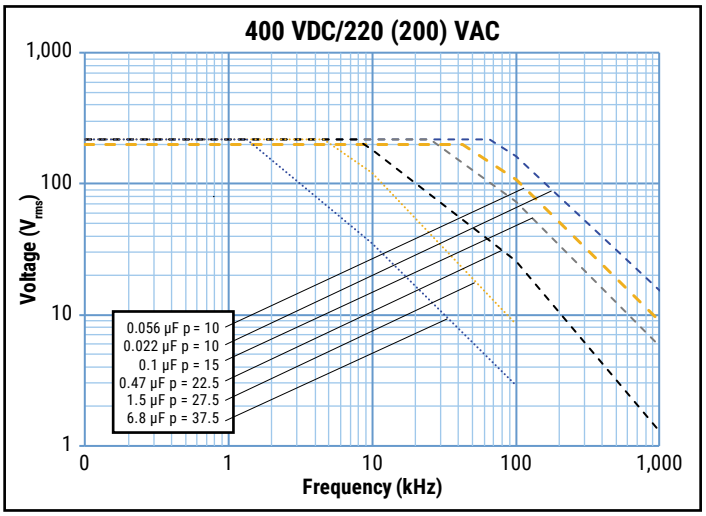
Qualification

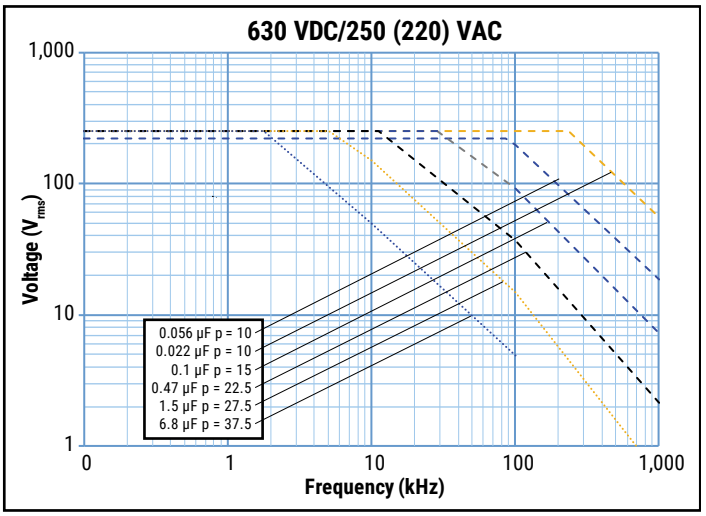
Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC–Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics Council and AEC–Q200, please visit their website at www.aecouncil.com.

Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/Th ≤ 85°C)

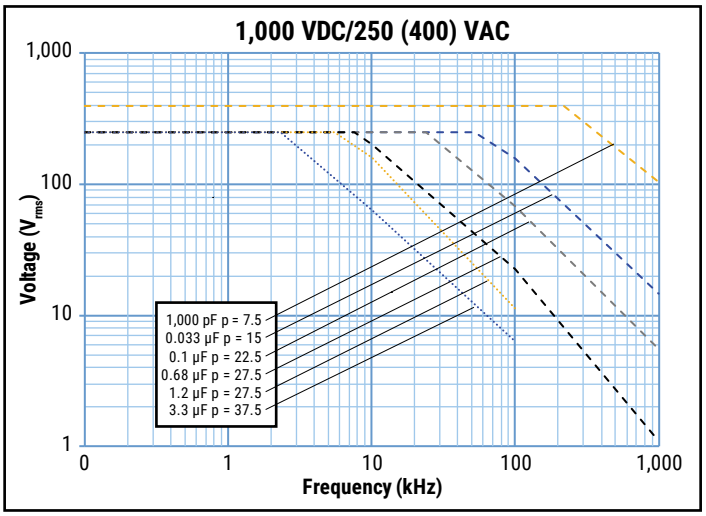


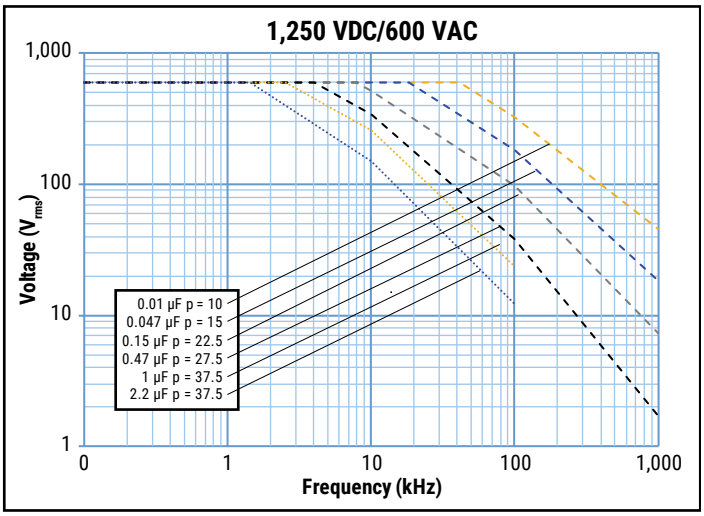


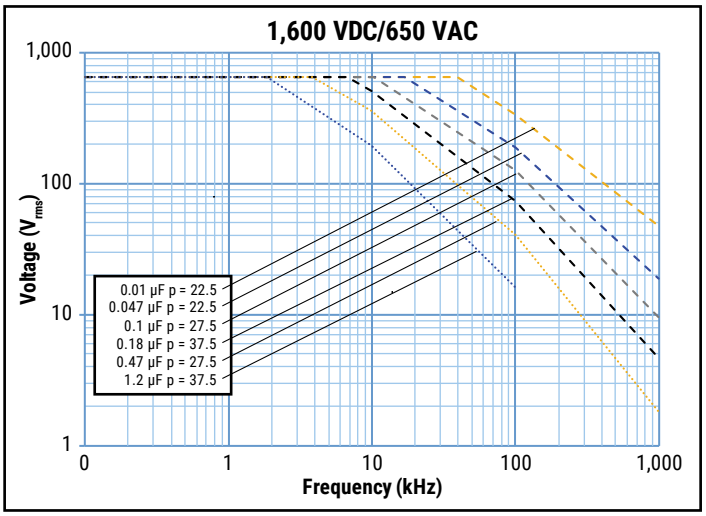


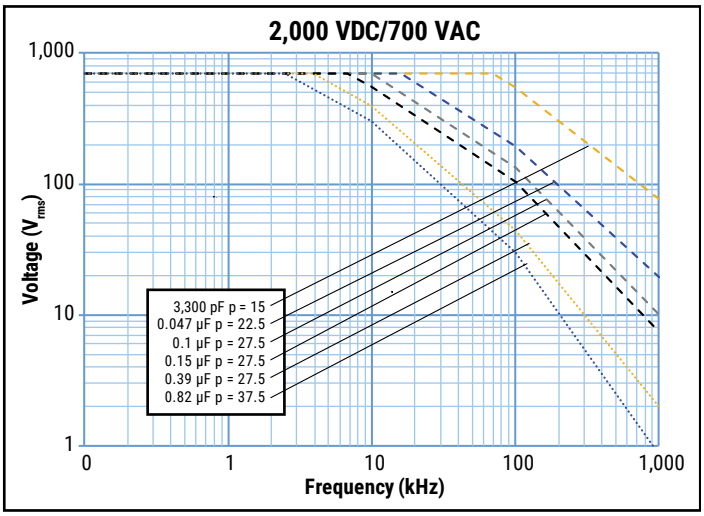


Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/Th ≤ 85°C) cont.

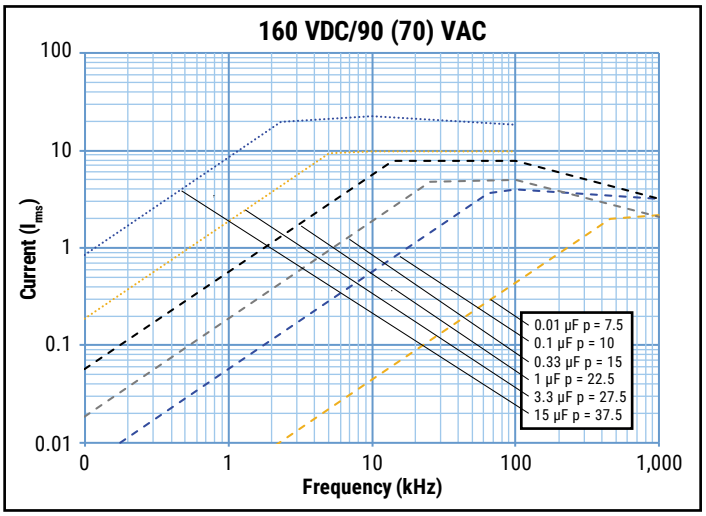


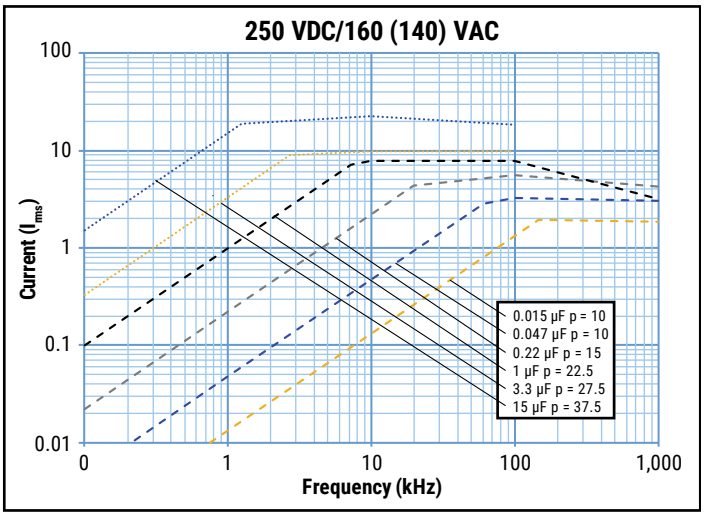


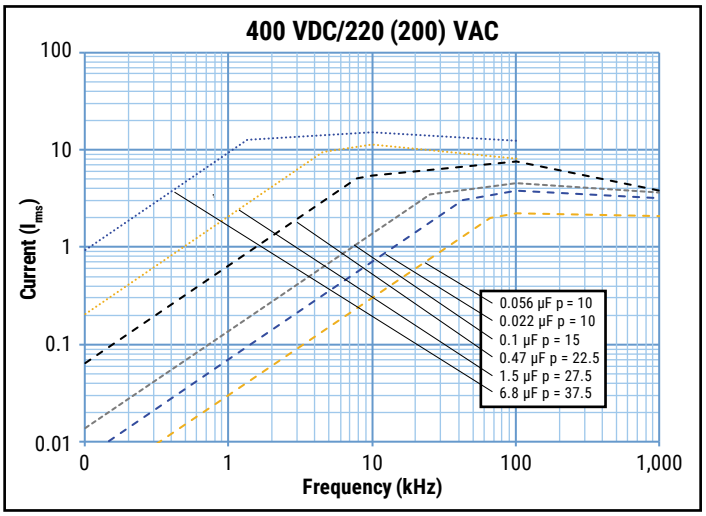


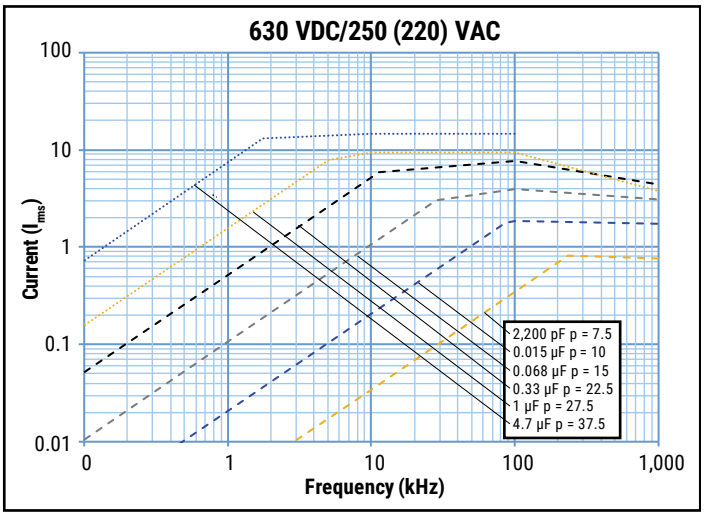


Maximum Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/Th ≤ 85°C)

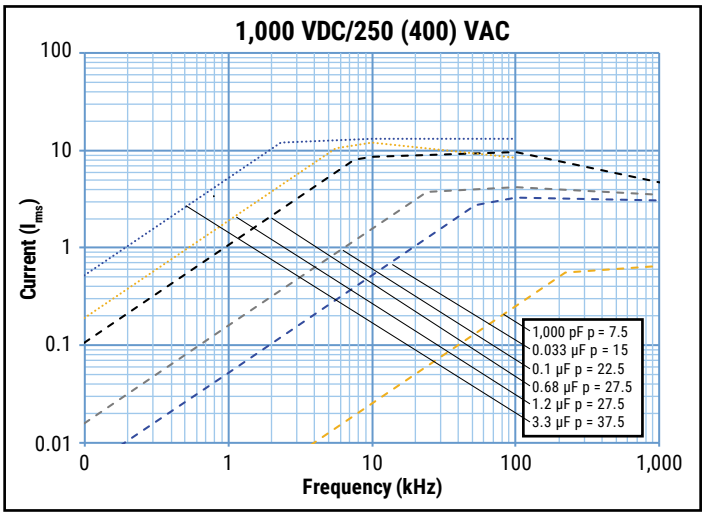


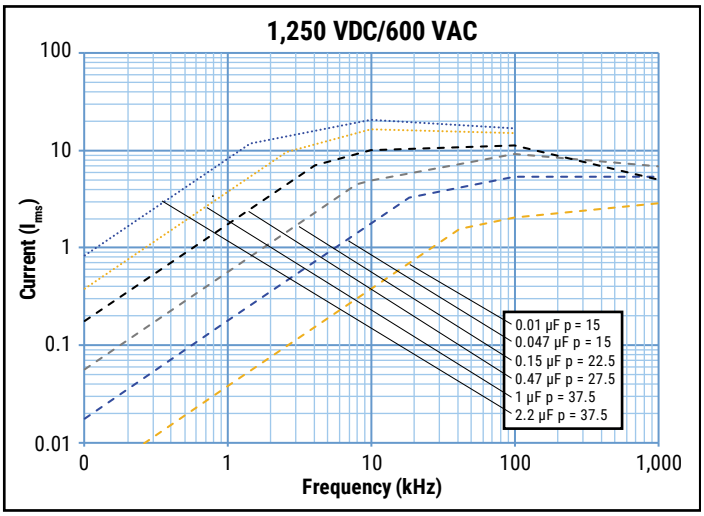


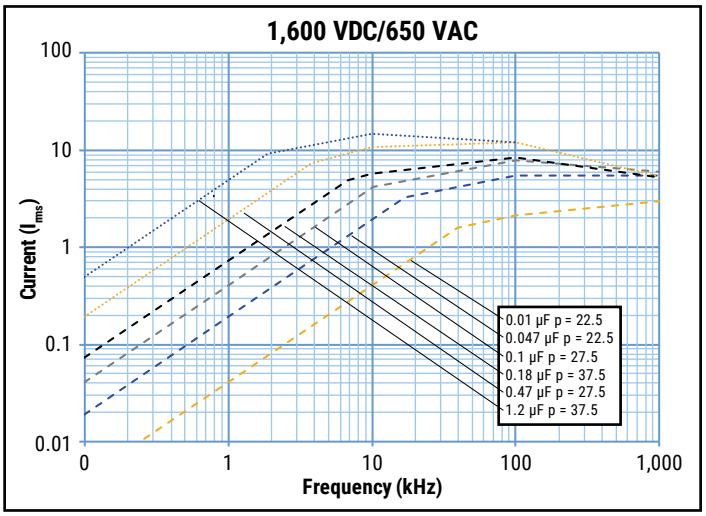


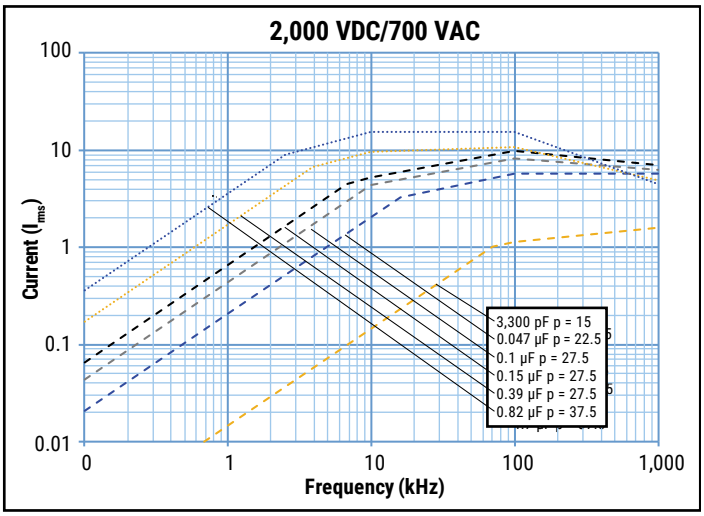


Maximum Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/Th ≤ 85°C) cont.









Environmental Test Data

Damp Heat, Steady State Test	Test Conditions:		Performances
	Temperature: Relative humidity (RH): Test duration:	+40°C ±2°C 93% ±2% 56 days	| Δ C/C | ≤ 2%, Δ tanδ ≤ 0.001 at 1 kHz IR after test ≥ 50% of initial limit
Endurance Test	**Test Conditions**		**Performances**
	Temperature: Voltage applied: Test duration:	+85°C ±2°C 1.25 x V_R (DC) 2,000 hours	| Δ C/C | ≤ 3%, Δ tanδ ≤ 0.001 at 10 kHz for C ≤ 1µF Δ tanδ ≤ 0.001 at 1 kHz for C > 1µF IR after test ≥ 50% of initial limit
Resistance to Soldering Heat Test	**Test Conditions**		**Performances**
	Solder bath temperature: Dipping time (with heat screen):	260°C ±5°C 10 seconds ±1 second	| Δ C/C | ≤ 1%, Δ tanδ ≤ 0.001 at 10 kHz for C ≤ 1µF Δ tanδ ≤ 0.001 at 1 kHz for C > 1µF IR after test ≥ initial limit

Environmental Compliance

All KEMET pulse capacitors are RoHS Compliant.

Table 1 – Ratings & Part Number Reference

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L					Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
									A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
160	70	0.1000	4.0	9.0	10.0	7.5	100	32,000	10	8	11	4.40	88	75GD3100(1)B0(2)	R75GD3100(1)B0(2)
160	70	0.1200	5.0	10.5	10.0	7.5	100	32,000	12	8	9	5.25	78	75GD3120(1)B0(2)	R75GD3120(1)B0(2)
160	70	0.1500	5.0	10.5	10.0	7.5	100	32,000	15	8	7	5.87	78	75GD3150(1)B0(2)	R75GD3150(1)B0(2)
160	70	0.1800	6.0	12.0	10.5	7.5	100	32,000	18	8	11	5.21	69	75GD3180(1)A0(2)	R75GD3180(1)A0(2)
160	70	0.2200	6.0	12.0	10.5	7.5	100	32,000	22	8	9	5.76	69	75GD3220(1)A0(2)	R75GD3220(1)A0(2)
160	70	0.1200	4.0	9.0	13.0	10.0	90	28,800	11	9	13	4.38	79	75GF3120(1)A0(2)	R75GF3120(1)A0(2)
160	70	0.1500	4.0	9.0	13.0	10.0	90	28,800	14	9	11	4.90	79	75GF3150(1)A0(2)	R75GF3150(1)A0(2)
160	70	0.1800	5.0	11.0	13.0	10.0	90	28,800	16	9	13	4.67	69	75GF3180(1)A0(2)	R75GF3180(1)A0(2)
160	70	0.2200	5.0	11.0	13.0	10.0	90	28,800	20	9	11	5.17	69	75GF3220(1)A0(2)	R75GF3220(1)A0(2)
160	70	0.2700	6.0	12.0	13.0	10.0	90	28,800	24	9	18	4.21	64	75GF3270(1)A0(2)	R75GF3270(1)A0(2)
160	70	0.3300	6.0	12.0	13.0	10.0	90	28,800	30	9	14	4.65	64	75GF3330(1)A0(2)	R75GF3330(1)A0(2)
160	90	0.0680	4.0	9.0	10.0	7.5	310	99,200	21	8	16	3.73	88	75GD2680(1)40(2)	R75GD2680(1)40(2)
160	90	0.0820	4.0	9.0	10.0	7.5	310	99,200	25	8	14	4.10	88	75GD2820(1)40(2)	R75GD2820(1)40(2)
160	90	0.1000	5.0	10.5	10.0	7.5	310	99,200	31	8	11	4.80	78	75GD3100(1)40(2)	R75GD3100(1)40(2)
160	90	0.1200	5.0	10.5	10.0	7.5	310	99,200	37	8	9	5.25	78	75GD3120(1)40(2)	R75GD3120(1)40(2)
160	90	0.1500	6.0	12.0	10.5	7.5	310	99,200	47	8	7	6.23	69	75GD3150(1)00(2)	R75GD3150(1)00(2)
160	90	0.1800	6.0	12.0	10.5	7.5	310	99,200	56	8	11	5.21	69	75GD3180(1)30(2)	R75GD3180(1)30(2)
160	90	0.0820	4.0	9.0	13.0	10.0	200	64,000	16	9	19	3.62	79	75GF2820(1)00(2)	R75GF2820(1)00(2)
160	90	0.1000	4.0	9.0	13.0	10.0	200	64,000	20	9	16	4.00	79	75GF3100(1)30(2)	R75GF3100(1)30(2)
160	90	0.1200	5.0	11.0	13.0	10.0	200	64,000	24	9	13	4.67	69	75GF3120(1)00(2)	R75GF3120(1)00(2)
160	90	0.1500	5.0	11.0	13.0	10.0	200	64,000	30	9	11	5.22	69	75GF3150(1)00(2)	R75GF3150(1)00(2)
160	90	0.1800	6.0	12.0	13.0	10.0	200	64,000	36	9	13	4.86	64	75GF3180(1)00(2)	R75GF3180(1)00(2)
160	90	0.2200	6.0	12.0	13.0	10.0	200	64,000	44	9	11	5.37	64	75GF3220(1)30(2)	R75GF3220(1)30(2)
160	90	0.1800	5.0	11.0	18.0	15.0	120	38,400	22	10	13	5.00	60	75GI3180(1)00(2)	R75GI3180(1)00(2)
160	90	0.2200	5.0	11.0	18.0	15.0	120	38,400	26	10	11	5.53	60	75GI3220(1)00(2)	R75GI3220(1)00(2)
160	90	0.2700	6.0	12.0	18.0	15.0	120	38,400	32	10	18	4.50	56	75GI3270(1)00(2)	R75GI3270(1)00(2)
160	90	0.3300	6.0	12.0	18.0	15.0	120	38,400	40	10	14	4.97	56	75GI3330(1)00(2)	R75GI3330(1)00(2)
160	90	0.3900	7.5	13.5	18.0	15.0	120	38,400	47	10	12	5.68	51	75GI3390(1)00(2)	R75GI3390(1)00(2)
160	90	0.4700	7.5	13.5	18.0	15.0	120	38,400	56	10	10	6.23	51	75GI3470(1)00(2)	R75GI3470(1)00(2)
160	90	0.4700	9.0	12.5	18.0	15.0	120	38,400	56	10	10	6.30	50	75GI3470(1)60(2)	R75GI3470(1)60(2)
160	90	0.5600	8.5	14.5	18.0	15.0	120	38,400	67	10	9	7.01	48	75GI3560(1)00(2)	R75GI3560(1)00(2)
160	90	0.5600	9.0	12.5	18.0	15.0	120	38,400	67	10	9	6.88	50	75GI3560(1)60(2)	R75GI3560(1)60(2)
160	90	0.6800	8.5	14.5	18.0	15.0	120	38,400	82	10	7	7.72	48	75GI3680(1)00(2)	R75GI3680(1)00(2)
160	90	0.6800	13.0	12.0	18.0	15.0	120	38,400	82	10	7	7.96	45	75GI3680(1)60(2)	R75GI3680(1)60(2)
160	90	0.8200	10.0	16.0	18.0	15.0	120	38,400	98	10	6	8.83	44	75GI3820(1)00(2)	R75GI3820(1)00(2)
160	90	1.0000	10.0	16.0	18.0	15.0	120	38,400	120	10	5	9.75	44	75GI4100(1)00(2)	R75GI4100(1)00(2)
160	90	0.8200	7.0	16.0	26.5	22.5	70	22,400	57	16	10	7.09	41	75GN3820(1)00(2)	R75GN3820(1)00(2)
160	90	1.0000	7.0	16.0	26.5	22.5	70	22,400	70	16	8	7.83	41	75GN4100(1)00(2)	R75GN4100(1)00(2)
160	90	1.2000	8.5	17.0	26.5	22.5	70	22,400	84	16	7	8.86	38	75GN4120(1)00(2)	R75GN4120(1)00(2)
160	90	1.5000	10.0	18.5	26.5	22.5	70	22,400	105	16	5	10.26	36	75GN4150(1)00(2)	R75GN4150(1)00(2)
160	90	1.8000	10.0	18.5	26.5	22.5	70	22,400	126	16	4	11.24	36	75GN4180(1)00(2)	R75GN4180(1)00(2)
160	90	1.5000	9.0	17.0	32.0	27.5	60	19,200	90	18	5	10.39	35	75GR4150(1)00(2)	R75GR4150(1)00(2)
160	90	1.8000	9.0	17.0	32.0	27.5	60	19,200	108	18	4	11.38	35	75GR4180(1)00(2)	R75GR4180(1)00(2)
160	90	2.2000	11.0	20.0	32.0	27.5	60	19,200	132	18	4	13.27	31	75GR4220(1)30(2)	R75GR4220(1)30(2)
160	90	2.7000	11.0	20.0	32.0	27.5	60	19,200	162	18	9	8.49	31	75GR4270(1)00(2)	R75GR4270(1)00(2)

VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L					Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
									A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
160	90	3.3000	13.0	22.0	32.0	27.5	60	19,200	198	18	7	9.75	29	75GR4330(1)00(2)	R75GR4330(1)00(2)
160	90	3.9000	13.0	22.0	32.0	27.5	60	19,200	234	18	6	10.60	29	75GR4390(1)00(2)	R75GR4390(1)00(2)
160	90	4.7000	13.0	25.0	32.0	27.5	60	19,200	282	18	5	11.91	28	75GR4470(1)30(2)	R75GR4470(1)30(2)
160	90	5.6000	14.0	28.0	32.0	27.5	60	19,200	336	18	4	13.41	26	75GR4560(1)00(2)	R75GR4560(1)00(2)
160	90	6.8000	18.0	33.0	32.0	27.5	60	19,200	408	18	7	11.14	23	75GR4680(1)00(2)	R75GR4680(1)00(2)
160	90	8.2000	18.0	33.0	32.0	27.5	60	19,200	492	18	6	12.24	23	75GR4820(1)00(2)	R75GR4820(1)00(2)
160	90	10.0000	22.0	37.0	32.0	27.5	60	19,200	600	18	5	14.20	21	75GR5100(1)00(2)	R75GR5100(1)00(2)
160	90	12.0000	22.0	37.0	32.0	27.5	60	19,200	720	18	4	15.56	21	75GR5120(1)00(2)	R75GR5120(1)00(2)
160	90	3.3000	11.0	22.0	41.5	37.5	35	11,200	116	20	7	10.10	27	75GW4330(1)00(2)	R75GW4330(1)00(2)
160	90	3.9000	11.0	22.0	41.5	37.5	35	11,200	137	20	6	10.98	27	75GW4390(1)00(2)	R75GW4390(1)00(2)
160	90	4.7000	11.0	22.0	41.5	37.5	35	11,200	165	20	5	12.05	27	75GW4470(1)00(2)	R75GW4470(1)00(2)
160	90	5.6000	13.0	24.0	41.5	37.5	35	11,200	196	20	4	13.63	25	75GW4560(1)00(2)	R75GW4560(1)00(2)
160	90	6.8000	16.0	28.5	41.5	37.5	35	11,200	238	20	7	11.24	23	75GW4680(1)00(2)	R75GW4680(1)00(2)
160	90	8.2000	16.0	28.5	41.5	37.5	35	11,200	287	20	6	12.34	23	75GW4820(1)00(2)	R75GW4820(1)00(2)
160	90	10.0000	19.0	32.0	41.5	37.5	35	11,200	350	20	5	14.23	21	75GW5100(1)00(2)	R75GW5100(1)00(2)
160	90	12.0000	19.0	32.0	41.5	37.5	35	11,200	420	20	4	15.59	21	75GW5120(1)00(2)	R75GW5120(1)00(2)
160	90	15.0000	20.0	40.0	41.5	37.5	35	11,200	525	20	3	18.30	19	75GW5150(1)00(2)	R75GW5150(1)00(2)
160	90	18.0000	20.0	40.0	41.5	37.5	35	11,200	630	20	3	20.05	19	75GW5180(1)00(2)	R75GW5180(1)00(2)
160	90	22.0000	24.0	44.0	41.5	37.5	35	11,200	770	20	2	23.13	17	75GW5220(1)00(2)	R75GW5220(1)00(2)
160	90	27.0000	30.0	45.0	41.5	37.5	35	11,200	945	20	2	26.57	16	75GW5270(1)00(2)	R75GW5270(1)00(2)
160	90	33.0000	30.0	45.0	41.5	37.5	35	11,200	1,155	20	1	29.37	16	75GW5330(1)00(2)	R75GW5330(1)00(2)
250	140	0.0680	4.0	9.0	10.0	7.5	180	90,000	12	8	16	3.73	88	75ID2680(1)B0(2)	R75ID2680(1)B0(2)
250	140	0.0820	4.0	9.0	10.0	7.5	180	90,000	15	8	14	4.10	88	75ID2820(1)B0(2)	R75ID2820(1)B0(2)
250	140	0.1000	5.0	10.5	10.0	7.5	180	90,000	18	8	11	4.80	78	75ID3100(1)B0(2)	R75ID3100(1)B0(2)
250	140	0.1200	5.0	10.5	10.0	7.5	180	90,000	22	8	9	5.25	78	75ID3120(1)B0(2)	R75ID3120(1)B0(2)
250	140	0.1500	6.0	12.0	10.5	7.5	180	90,000	27	8	7	6.23	69	75ID3150(1)A0(2)	R75ID3150(1)A0(2)
250	140	0.1800	6.0	12.0	10.5	7.5	180	90,000	32	8	11	5.21	69	75ID3180(1)A0(2)	R75ID3180(1)A0(2)
250	140	0.0820	4.0	9.0	13.0	10.0	150	75,000	12	9	19	3.62	79	75IF2820(1)A0(2)	R75IF2820(1)A0(2)
250	140	0.1000	4.0	9.0	13.0	10.0	150	75,000	15	9	16	4.00	79	75IF3100(1)A0(2)	R75IF3100(1)A0(2)
250	140	0.1200	5.0	11.0	13.0	10.0	150	75,000	18	9	13	4.67	69	75IF3120(1)A0(2)	R75IF3120(1)A0(2)
250	140	0.1500	5.0	11.0	13.0	10.0	150	75,000	23	9	11	5.22	69	75IF3150(1)A0(2)	R75IF3150(1)A0(2)
250	140	0.1800	6.0	12.0	13.0	10.0	150	75,000	27	9	13	4.86	64	75IF3180(1)A0(2)	R75IF3180(1)A0(2)
250	140	0.2200	6.0	12.0	13.0	10.0	150	75,000	33	9	11	5.37	64	75IF3220(1)A0(2)	R75IF3220(1)A0(2)
250	160	0.0270	4.0	9.0	10.0	7.5	650	325,000	18	8	41	2.35	88	75ID2270(1)40(2)	R75ID2270(1)40(2)
250	160	0.0330	4.0	9.0	10.0	7.5	650	325,000	21	8	34	2.60	88	75ID2330(1)40(2)	R75ID2330(1)40(2)
250	160	0.0390	4.0	9.0	10.0	7.5	650	325,000	25	8	29	2.83	88	75ID2390(1)40(2)	R75ID2390(1)40(2)
250	160	0.0470	4.0	9.0	10.0	7.5	650	325,000	31	8	24	3.10	88	75ID2470(1)40(2)	R75ID2470(1)40(2)
250	160	0.0560	4.0	9.0	10.0	7.5	650	325,000	36	8	20	3.39	88	75ID2560(1)40(2)	R75ID2560(1)40(2)
250	160	0.0680	5.0	10.5	10.0	7.5	650	325,000	44	8	16	3.95	78	75ID2680(1)40(2)	R75ID2680(1)40(2)
250	160	0.0820	5.0	10.5	10.0	7.5	650	325,000	53	8	14	4.34	78	75ID2820(1)40(2)	R75ID2820(1)40(2)
250	160	0.1000	6.0	12.0	10.5	7.5	650	325,000	65	8	11	5.09	69	75ID3100(1)30(2)	R75ID3100(1)30(2)
250	160	0.1200	6.0	12.0	10.5	7.5	650	325,000	78	8	9	5.57	69	75ID3120(1)30(2)	R75ID3120(1)30(2)
250	160	0.0330	4.0	9.0	13.0	10.0	570	285,000	19	9	34	2.75	79	75IF2330(1)00(2)	R75IF2330(1)00(2)
250	160	0.0390	4.0	9.0	13.0	10.0	570	285,000	22	9	29	2.99	79	75IF2390(1)00(2)	R75IF2390(1)00(2)
250	160	0.0470	4.0	9.0	13.0	10.0	570	285,000	27	9	24	3.28	79	75IF2470(1)30(2)	R75IF2470(1)30(2)

VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L					Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
									A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
250	160	0.0560	4.0	9.0	13.0	10.0	570	285,000	32	9	28	2.99	79	75IF2560(1)30(2)	R75IF2560(1)30(2)
250	160	0.0680	4.0	9.0	13.0	10.0	570	285,000	39	9	23	3.30	79	75IF2680(1)30(2)	R75IF2680(1)30(2)
250	160	0.0820	5.0	11.0	13.0	10.0	570	285,000	47	9	19	3.86	69	75IF2820(1)30(2)	R75IF2820(1)30(2)
250	160	0.1000	5.0	11.0	13.0	10.0	570	285,000	57	9	16	4.27	69	75IF3100(1)30(2)	R75IF3100(1)30(2)
250	160	0.1200	6.0	12.0	13.0	10.0	570	285,000	68	9	13	4.86	64	75IF3120(1)30(2)	R75IF3120(1)30(2)
250	160	0.1500	6.0	12.0	13.0	10.0	570	285,000	86	9	11	5.43	64	75IF3150(1)30(2)	R75IF3150(1)30(2)
250	160	0.1200	5.0	11.0	18.0	15.0	310	155,000	37	10	13	5.00	60	75II3120(1)30(2)	R75II3120(1)30(2)
250	160	0.1500	5.0	11.0	18.0	15.0	310	155,000	47	10	11	5.59	60	75II3150(1)30(2)	R75II3150(1)30(2)
250	160	0.1800	5.0	11.0	18.0	15.0	310	155,000	56	10	13	5.00	60	75II3180(1)40(2)	R75II3180(1)40(2)
250	160	0.2200	5.0	11.0	18.0	15.0	310	155,000	68	10	11	5.53	60	75II3220(1)40(2)	R75II3220(1)40(2)
250	160	0.2700	6.0	12.0	18.0	15.0	310	155,000	84	10	18	4.50	56	75II3270(1)40(2)	R75II3270(1)40(2)
250	160	0.3300	6.0	12.0	18.0	15.0	310	155,000	102	10	14	4.97	56	75II3330(1)40(2)	R75II3330(1)40(2)
250	160	0.3900	7.5	13.5	18.0	15.0	310	155,000	121	10	12	5.68	51	75II3390(1)40(2)	R75II3390(1)40(2)
250	160	0.3900	9.0	12.5	18.0	15.0	310	155,000	121	10	12	5.74	50	75II3390(1)70(2)	R75II3390(1)70(2)
250	160	0.4700	7.5	13.5	18.0	15.0	310	155,000	146	10	10	6.23	51	75II3470(1)40(2)	R75II3470(1)40(2)
250	160	0.4700	9.0	12.5	18.0	15.0	310	155,000	146	10	10	6.30	50	75II3470(1)80(2)	R75II3470(1)80(2)
250	160	0.5600	7.5	13.5	18.0	15.0	310	155,000	174	10	9	6.80	51	75II3560(1)40(2)	R75II3560(1)40(2)
250	160	0.5600	9.0	12.5	18.0	15.0	310	155,000	174	10	9	6.88	50	75II3560(1)80(2)	R75II3560(1)80(2)
250	160	0.6800	8.5	14.5	18.0	15.0	310	155,000	211	10	7	7.72	48	75II3680(1)40(2)	R75II3680(1)40(2)
250	160	0.6800	13.0	12.0	18.0	15.0	310	155,000	211	10	7	7.96	45	75II3680(1)80(2)	R75II3680(1)80(2)
250	160	0.8200	10.0	16.0	18.0	15.0	310	155,000	254	10	6	8.83	44	75II3820(1)40(2)	R75II3820(1)40(2)
250	160	0.8200	13.0	12.0	18.0	15.0	310	155,000	254	10	6	8.75	45	75II3820(1)80(2)	R75II3820(1)80(2)
250	160	1.0000	10.0	16.0	18.0	15.0	310	155,000	310	10	5	9.75	44	75II4100(1)40(2)	R75II4100(1)40(2)
250	160	1.2000	11.0	19.0	18.0	15.0	310	155,000	372	10	7	8.66	40	75II4120(1)40(2)	R75II4120(1)40(2)
250	160	0.3900	6.0	15.0	26.5	22.5	130	65,000	51	16	10	6.72	43	75IN3390(1)30(2)	R75IN3390(1)30(2)
250	160	0.4700	6.0	15.0	26.5	22.5	130	65,000	61	16	8	7.38	43	75IN3470(1)30(2)	R75IN3470(1)30(2)
250	160	0.5600	6.0	15.0	26.5	22.5	130	65,000	73	16	11	6.37	43	75IN3560(1)40(2)	R75IN3560(1)40(2)
250	160	0.6800	6.0	15.0	26.5	22.5	130	65,000	88	16	9	7.01	43	75IN3680(1)40(2)	R75IN3680(1)40(2)
250	160	0.8200	7.0	16.0	26.5	22.5	130	65,000	107	16	10	7.09	41	75IN3820(1)40(2)	R75IN3820(1)40(2)
250	160	1.0000	7.0	16.0	26.5	22.5	130	65,000	130	16	8	7.83	41	75IN4100(1)40(2)	R75IN4100(1)40(2)
250	160	1.2000	8.5	17.0	26.5	22.5	130	65,000	156	16	7	8.86	38	75IN4120(1)40(2)	R75IN4120(1)40(2)
250	160	1.5000	10.0	18.5	26.5	22.5	130	65,000	195	16	5	10.26	36	75IN4150(1)40(2)	R75IN4150(1)40(2)
250	160	1.8000	10.0	18.5	26.5	22.5	130	65,000	234	16	4	11.24	36	75IN4180(1)40(2)	R75IN4180(1)40(2)
250	160	2.2000	11.0	20.0	26.5	22.5	130	65,000	286	16	4	12.76	34	75IN4220(1)40(2)	R75IN4220(1)40(2)
250	160	2.7000	13.0	22.0	26.5	22.5	130	65,000	351	16	9	8.49	31	75IN4270(1)40(2)	R75IN4270(1)40(2)
250	160	3.3000	13.0	22.0	26.5	22.5	130	65,000	429	16	7	9.39	31	75IN4330(1)40(2)	R75IN4330(1)40(2)
250	160	1.0000	9.0	17.0	32.0	27.5	100	50,000	100	18	8	8.48	35	75IR4100(1)30(2)	R75IR4100(1)30(2)
250	160	1.2000	9.0	17.0	32.0	27.5	100	50,000	120	18	7	9.29	35	75IR4120(1)30(2)	R75IR4120(1)30(2)
250	160	1.5000	9.0	17.0	32.0	27.5	100	50,000	150	18	5	10.39	35	75IR4150(1)40(2)	R75IR4150(1)40(2)
250	160	1.8000	9.0	17.0	32.0	27.5	100	50,000	180	18	4	11.38	35	75IR4180(1)40(2)	R75IR4180(1)40(2)
250	160	2.2000	11.0	20.0	32.0	27.5	100	50,000	220	18	4	13.27	31	75IR4220(1)50(2)	R75IR4220(1)50(2)
250	160	2.7000	11.0	20.0	32.0	27.5	100	50,000	270	18	9	8.49	31	75IR4270(1)40(2)	R75IR4270(1)40(2)
250	160	3.3000	13.0	22.0	32.0	27.5	100	50,000	330	18	7	9.75	29	75IR4330(1)40(2)	R75IR4330(1)40(2)
250	160	3.9000	13.0	22.0	32.0	27.5	100	50,000	390	18	6	10.60	29	75IR4390(1)40(2)	R75IR4390(1)40(2)
250	160	4.7000	13.0	25.0	32.0	27.5	100	50,000	470	18	5	11.91	28	75IR4470(1)50(2)	R75IR4470(1)50(2)
250	160	5.6000	14.0	28.0	32.0	27.5	100	50,000	560	18	4	13.41	26	75IR4560(1)40(2)	R75IR4560(1)40(2)
250	160	6.8000	18.0	33.0	32.0	27.5	100	50,000	680	18	7	11.14	23	75IR4680(1)40(2)	R75IR4680(1)40(2)

VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L					Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
									A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
250	160	8.2000	18.0	33.0	32.0	27.5	100	50,000	820	18	6	12.24	23	75IR4820(1)40(2)	R75IR4820(1)40(2)
250	160	10.0000	22.0	37.0	32.0	27.5	100	50,000	1,000	18	5	14.20	21	75IR5100(1)40(2)	R75IR5100(1)40(2)
250	160	12.0000	22.0	37.0	32.0	27.5	100	50,000	1,200	18	4	15.56	21	75IR5120(1)40(2)	R75IR5120(1)40(2)
250	160	3.3000	11.0	22.0	41.5	37.5	40	20,000	132	20	7	10.10	27	75IW4330(1)40(2)	R75IW4330(1)40(2)
250	160	3.9000	11.0	22.0	41.5	37.5	40	20,000	156	20	6	10.98	27	75IW4390(1)40(2)	R75IW4390(1)40(2)
250	160	4.7000	11.0	22.0	41.5	37.5	40	20,000	188	20	5	12.05	27	75IW4470(1)40(2)	R75IW4470(1)40(2)
250	160	5.6000	13.0	24.0	41.5	37.5	40	20,000	224	20	4	13.63	25	75IW4560(1)40(2)	R75IW4560(1)40(2)
250	160	6.8000	16.0	28.5	41.5	37.5	40	20,000	272	20	7	11.24	23	75IW4680(1)40(2)	R75IW4680(1)40(2)
250	160	8.2000	16.0	28.5	41.5	37.5	40	20,000	328	20	6	12.34	23	75IW4820(1)40(2)	R75IW4820(1)40(2)
250	160	10.0000	19.0	32.0	41.5	37.5	40	20,000	400	20	5	14.23	21	75IW5100(1)40(2)	R75IW5100(1)40(2)
250	160	12.0000	19.0	32.0	41.5	37.5	40	20,000	480	20	4	15.59	21	75IW5120(1)40(2)	R75IW5120(1)40(2)
250	160	15.0000	20.0	40.0	41.5	37.5	40	20,000	600	20	3	18.30	19	75IW5150(1)40(2)	R75IW5150(1)40(2)
250	160	18.0000	20.0	40.0	41.5	37.5	40	20,000	720	20	3	20.05	19	75IW5180(1)40(2)	R75IW5180(1)40(2)
250	160	22.0000	24.0	44.0	41.5	37.5	40	20,000	880	20	2	23.13	17	75IW5220(1)40(2)	R75IW5220(1)40(2)
250	160	27.0000	24.0	44.0	41.5	37.5	40	20,000	1,080	20	2	25.62	17	75IW5270(1)40(2)	R75IW5270(1)40(2)
250	160	33.0000	30.0	45.0	41.5	37.5	40	20,000	1,320	20	1	29.37	16	75IW5330(1)40(2)	R75IW5330(1)40(2)
400	200	0.0270	4.0	9.0	10.0	7.5	390	312,000	11	8	41	2.35	88	75MD2270(1)B0(2)	R75MD2270(1)B0(2)
400	200	0.0330	5.0	10.5	10.0	7.5	390	312,000	13	8	34	2.75	78	75MD2330(1)B0(2)	R75MD2330(1)B0(2)
400	200	0.0390	5.0	10.5	10.0	7.5	390	312,000	15	8	29	2.99	78	75MD2390(1)B0(2)	R75MD2390(1)B0(2)
400	200	0.0470	5.0	10.5	10.0	7.5	390	312,000	18	8	24	3.29	78	75MD2470(1)B0(2)	R75MD2470(1)B0(2)
400	200	0.0560	6.0	12.0	10.5	7.5	390	312,000	22	8	20	3.81	69	75MD2560(1)A0(2)	R75MD2560(1)A0(2)
400	200	0.0680	6.0	12.0	10.5	7.5	390	312,000	27	8	16	4.20	69	75MD2680(1)A0(2)	R75MD2680(1)A0(2)
400	220	0.0100	4.0	9.0	10.0	7.5	1,500	1,200,000	15	8	80	1.38	88	75MD2100(1)40(2)	R75MD2100(1)40(2)
400	220	0.0120	4.0	9.0	10.0	7.5	1,500	1,200,000	18	8	93	1.57	88	75MD2120(1)40(2)	R75MD2120(1)40(2)
400	220	0.0150	4.0	9.0	10.0	7.5	1,500	1,200,000	23	8	74	1.75	88	75MD2150(1)40(2)	R75MD2150(1)40(2)
400	220	0.0180	4.0	9.0	10.0	7.5	1,500	1,200,000	27	8	62	1.92	88	75MD2180(1)40(2)	R75MD2180(1)40(2)
400	220	0.0220	4.0	9.0	10.0	7.5	1,500	1,200,000	33	8	51	2.12	88	75MD2220(1)40(2)	R75MD2220(1)40(2)
400	220	0.0270	5.0	10.5	10.0	7.5	1,500	1,200,000	41	8	41	2.49	78	75MD2270(1)40(2)	R75MD2270(1)40(2)
400	220	0.0330	5.0	10.5	10.0	7.5	1,500	1,200,000	50	8	34	2.75	78	75MD2330(1)40(2)	R75MD2330(1)40(2)
400	220	0.0390	6.0	12.0	10.5	7.5	1,500	1,200,000	59	8	29	3.18	69	75MD2390(1)30(2)	R75MD2390(1)30(2)
400	220	0.0470	6.0	12.0	10.5	7.5	1,500	1,200,000	71	8	24	3.49	69	75MD2470(1)30(2)	R75MD2470(1)30(2)
400	220	0.0150	4.0	9.0	13.0	10.0	1,300	1,040,000	20	9	74	1.85	79	75MF2150(1)00(2)	R75MF2150(1)00(2)
400	220	0.0180	4.0	9.0	13.0	10.0	1,300	1,040,000	23	9	62	2.03	79	75MF2180(1)00(2)	R75MF2180(1)00(2)
400	220	0.0220	4.0	9.0	13.0	10.0	1,300	1,040,000	29	9	51	2.24	79	75MF2220(1)30(2)	R75MF2220(1)30(2)
400	220	0.0270	4.0	9.0	13.0	10.0	1,300	1,040,000	35	9	41	2.48	79	75MF2270(1)30(2)	R75MF2270(1)30(2)
400	220	0.0330	5.0	11.0	13.0	10.0	1,300	1,040,000	43	9	34	2.93	69	75MF2330(1)30(2)	R75MF2330(1)30(2)
400	220	0.0390	5.0	11.0	13.0	10.0	1,300	1,040,000	51	9	29	3.18	69	75MF2390(1)30(2)	R75MF2390(1)30(2)
400	220	0.0470	5.0	11.0	13.0	10.0	1,300	1,040,000	61	9	24	3.50	69	75MF2470(1)30(2)	R75MF2470(1)30(2)
400	220	0.0560	6.0	12.0	13.0	10.0	1,300	1,040,000	73	9	28	3.32	64	75MF2560(1)30(2)	R75MF2560(1)30(2)
400	220	0.0680	6.0	12.0	13.0	10.0	1,300	1,040,000	88	9	23	3.66	64	75MF2680(1)30(2)	R75MF2680(1)30(2)
400	220	0.0680	5.0	11.0	18.0	15.0	900	720,000	61	10	23	3.77	60	75MI2680(1)30(2)	R75MI2680(1)30(2)
400	220	0.0820	5.0	11.0	18.0	15.0	900	720,000	74	10	19	4.14	60	75MI2820(1)30(2)	R75MI2820(1)30(2)
400	220	0.1000	5.0	11.0	18.0	15.0	900	720,000	90	10	16	4.57	60	75MI3100(1)30(2)	R75MI3100(1)30(2)
400	220	0.1200	6.0	12.0	18.0	15.0	900	720,000	108	10	13	5.19	56	75MI3120(1)30(2)	R75MI3120(1)30(2)
400	220	0.1500	6.0	12.0	18.0	15.0	900	720,000	135	10	11	5.81	56	75MI3150(1)30(2)	R75MI3150(1)30(2)
400	220	0.1800	7.5	13.5	18.0	15.0	900	720,000	162	10	13	5.45	51	75MI3180(1)30(2)	R75MI3180(1)30(2)
400	220	0.2200	7.5	13.5	18.0	15.0	900	720,000	198	10	11	6.03	51	75MI3220(1)30(2)	R75MI3220(1)30(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L					Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
									A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
400	220	0.2200	9.0	12.5	18.0	15.0	900	720,000	198	10	11	6.10	50	75MI3220(1)70(2)	R75MI3220(1)70(2)
400	220	0.2700	8.5	14.5	18.0	15.0	900	720,000	243	10	18	4.87	48	75MI3270(1)30(2)	R75MI3270(1)30(2)
400	220	0.2700	9.0	12.5	18.0	15.0	900	720,000	243	10	18	4.77	50	75MI3270(1)70(2)	R75MI3270(1)70(2)
400	220	0.3300	10.0	16.0	18.0	15.0	900	720,000	297	10	14	5.60	44	75MI3330(1)30(2)	R75MI3330(1)30(2)
400	220	0.3300	13.0	12.0	18.0	15.0	900	720,000	297	10	14	5.55	45	75MI3330(1)70(2)	R75MI3330(1)70(2)
400	220	0.3900	10.0	16.0	18.0	15.0	900	720,000	351	10	12	6.09	44	75MI3390(1)30(2)	R75MI3390(1)30(2)
400	220	0.4700	10.0	16.0	18.0	15.0	900	720,000	423	10	10	6.68	44	75MI3470(1)30(2)	R75MI3470(1)30(2)
400	220	0.5600	11.0	19.0	18.0	15.0	900	720,000	504	10	9	7.63	40	75MI3560(1)30(2)	R75MI3560(1)30(2)
400	220	0.1800	6.0	15.0	26.5	22.5	300	240,000	54	16	15	5.54	43	75MN3180(1)30(2)	R75MN3180(1)30(2)
400	220	0.2200	6.0	15.0	26.5	22.5	300	240,000	66	16	12	6.12	43	75MN3220(1)30(2)	R75MN3220(1)30(2)
400	220	0.2700	6.0	15.0	26.5	22.5	300	240,000	81	16	12	6.25	43	75MN3270(1)30(2)	R75MN3270(1)30(2)
400	220	0.3300	6.0	15.0	26.5	22.5	300	240,000	99	16	10	6.91	43	75MN3330(1)30(2)	R75MN3330(1)30(2)
400	220	0.3900	7.0	16.0	26.5	22.5	300	240,000	117	16	10	6.91	41	75MN3390(1)30(2)	R75MN3390(1)30(2)
400	220	0.4700	7.0	16.0	26.5	22.5	300	240,000	141	16	8	7.59	41	75MN3470(1)30(2)	R75MN3470(1)30(2)
400	220	0.5600	8.5	17.0	26.5	22.5	300	240,000	168	16	11	6.77	38	75MN3560(1)30(2)	R75MN3560(1)30(2)
400	220	0.6800	10.0	18.5	26.5	22.5	300	240,000	204	16	9	7.73	36	75MN3680(1)30(2)	R75MN3680(1)30(2)
400	220	0.8200	10.0	18.5	26.5	22.5	300	240,000	246	16	10	7.59	36	75MN3820(1)30(2)	R75MN3820(1)30(2)
400	220	1.0000	11.0	20.0	26.5	22.5	300	240,000	300	16	8	8.60	34	75MN4100(1)30(2)	R75MN4100(1)30(2)
400	220	1.2000	13.0	22.0	26.5	22.5	300	240,000	360	16	7	9.80	31	75MN4120(1)30(2)	R75MN4120(1)30(2)
400	220	1.5000	13.0	22.0	26.5	22.5	300	240,000	450	16	5	10.96	31	75MN4150(1)30(2)	R75MN4150(1)30(2)
400	220	0.5600	9.0	17.0	32.0	27.5	130	104,000	73	18	11	7.10	35	75MR3560(1)30(2)	R75MR3560(1)30(2)
400	220	0.6800	9.0	17.0	32.0	27.5	130	104,000	88	18	9	7.82	35	75MR3680(1)30(2)	R75MR3680(1)30(2)
400	220	0.8200	9.0	17.0	32.0	27.5	130	104,000	107	18	10	7.68	35	75MR3820(1)30(2)	R75MR3820(1)30(2)
400	220	1.0000	11.0	20.0	32.0	27.5	130	104,000	130	18	8	8.95	31	75MR4100(1)40(2)	R75MR4100(1)40(2)
400	220	1.2000	11.0	20.0	32.0	27.5	130	104,000	156	18	7	9.80	31	75MR4120(1)30(2)	R75MR4120(1)30(2)
400	220	1.5000	13.0	22.0	32.0	27.5	130	104,000	195	18	5	11.39	29	75MR4150(1)30(2)	R75MR4150(1)30(2)
400	220	1.8000	13.0	22.0	32.0	27.5	130	104,000	234	18	4	12.47	29	75MR4180(1)30(2)	R75MR4180(1)30(2)
400	220	2.2000	13.0	25.0	32.0	27.5	130	104,000	286	18	4	14.12	28	75MR4220(1)40(2)	R75MR4220(1)40(2)
400	220	2.7000	14.0	28.0	32.0	27.5	130	104,000	351	18	9	9.31	26	75MR4270(1)30(2)	R75MR4270(1)30(2)
400	220	3.3000	18.0	33.0	32.0	27.5	130	104,000	429	18	7	10.98	23	75MR4330(1)30(2)	R75MR4330(1)30(2)
400	220	3.9000	18.0	33.0	32.0	27.5	130	104,000	507	18	6	11.93	23	75MR4390(1)30(2)	R75MR4390(1)30(2)
400	220	4.7000	22.0	37.0	32.0	27.5	130	104,000	611	18	5	13.77	21	75MR4470(1)30(2)	R75MR4470(1)30(2)
400	220	5.6000	22.0	37.0	32.0	27.5	130	104,000	728	18	4	15.03	21	75MR4560(1)30(2)	R75MR4560(1)30(2)
400	220	1.2000	11.0	22.0	41.5	37.5	70	56,000	84	20	7	10.55	27	75MW4120(1)30(2)	R75MW4120(1)30(2)
400	220	1.5000	11.0	22.0	41.5	37.5	70	56,000	105	20	5	11.79	27	75MW4150(1)30(2)	R75MW4150(1)30(2)
400	220	1.8000	11.0	22.0	41.5	37.5	70	56,000	126	20	4	12.92	27	75MW4180(1)30(2)	R75MW4180(1)30(2)
400	220	2.2000	11.0	22.0	41.5	37.5	70	56,000	154	20	4	14.28	27	75MW4220(1)30(2)	R75MW4220(1)30(2)
400	220	2.7000	13.0	24.0	41.5	37.5	70	56,000	189	20	9	9.46	25	75MW4270(1)30(2)	R75MW4270(1)30(2)
400	220	3.3000	16.0	28.5	41.5	37.5	70	56,000	231	20	7	11.07	23	75MW4330(1)30(2)	R75MW4330(1)30(2)
400	220	3.9000	16.0	28.5	41.5	37.5	70	56,000	273	20	6	12.04	23	75MW4390(1)30(2)	R75MW4390(1)30(2)
400	220	4.7000	19.0	32.0	41.5	37.5	70	56,000	329	20	5	13.80	21	75MW4470(1)30(2)	R75MW4470(1)30(2)
400	220	5.6000	19.0	32.0	41.5	37.5	70	56,000	392	20	4	15.06	21	75MW4560(1)30(2)	R75MW4560(1)30(2)
400	220	6.8000	20.0	40.0	41.5	37.5	70	56,000	476	20	7	12.32	19	75MW4680(1)20(2)	R75MW4680(1)20(2)
400	220	8.2000	20.0	40.0	41.5	37.5	70	56,000	574	20	6	13.53	19	75MW4820(1)30(2)	R75MW4820(1)30(2)
400	220	10.0000	24.0	44.0	41.5	37.5	70	56,000	700	20	5	15.59	17	75MW5100(1)30(2)	R75MW5100(1)30(2)
400	220	12.0000	30.0	45.0	41.5	37.5	70	56,000	840	20	4	17.71	16	75MW5120(1)20(2)	R75MW5120(1)20(2)
400	220	15.0000	30.0	45.0	41.5	37.5	70	56,000	1,050	20	3	19.80	16	75MW5150(1)30(2)	R75MW5150(1)30(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			W	H	L				A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
630	220	0.0100	4.0	9.0	10.0	7.5	600	756,000	6	8	80	1.38	88	75PD2100(1)B0(2)	R75PD2100(1)B0(2)
630	220	0.0120	4.0	9.0	10.0	7.5	600	756,000	7	8	93	1.57	88	75PD2120(1)B0(2)	R75PD2120(1)B0(2)
630	220	0.0150	5.0	10.5	10.0	7.5	600	756,000	9	8	74	1.86	78	75PD2150(1)B0(2)	R75PD2150(1)B0(2)
630	220	0.0180	5.0	10.5	10.0	7.5	600	756,000	11	8	62	2.03	78	75PD2180(1)B0(2)	R75PD2180(1)B0(2)
630	220	0.0220	6.0	12.0	10.5	7.5	600	756,000	13	8	51	2.39	69	75PD2220(1)A0(2)	R75PD2220(1)A0(2)
630	220	0.0270	6.0	12.0	10.5	7.5	600	756,000	16	8	41	2.64	69	75PD2270(1)A0(2)	R75PD2270(1)A0(2)
630	250	0.0033	4.0	9.0	10.0	7.5	2,400	3,024,000	8	8	241	0.52	88	75PD1330(1)40(2)	R75PD1330(1)40(2)
630	250	0.0039	4.0	9.0	10.0	7.5	2,400	3,024,000	9	8	204	0.61	88	75PD1390(1)40(2)	R75PD1390(1)40(2)
630	250	0.0047	4.0	9.0	10.0	7.5	2,400	3,024,000	11	8	169	0.74	88	75PD1470(1)40(2)	R75PD1470(1)40(2)
630	250	0.0056	4.0	9.0	10.0	7.5	2,400	3,024,000	13	8	142	0.88	88	75PD1560(1)40(2)	R75PD1560(1)40(2)
630	250	0.0068	4.0	9.0	10.0	7.5	2,400	3,024,000	16	8	117	1.07	88	75PD1680(1)40(2)	R75PD1680(1)40(2)
630	250	0.0082	4.0	9.0	10.0	7.5	2,400	3,024,000	20	8	97	1.29	88	75PD1820(1)40(2)	R75PD1820(1)40(2)
630	250	0.0100	5.0	10.5	10.0	7.5	2,400	3,024,000	24	8	80	1.57	78	75PD2100(1)40(2)	R75PD2100(1)40(2)
630	250	0.0120	5.0	10.5	10.0	7.5	2,400	3,024,000	29	8	93	1.66	78	75PD2120(1)40(2)	R75PD2120(1)40(2)
630	250	0.0150	6.0	12.0	10.5	7.5	2,400	3,024,000	36	8	74	1.97	69	75PD2150(1)30(2)	R75PD2150(1)30(2)
630	250	0.0180	6.0	12.0	10.5	7.5	2,400	3,024,000	43	8	62	2.16	69	75PD2180(1)30(2)	R75PD2180(1)30(2)
630	250	0.0010	4.0	9.0	13.0	10.0	2,000	2,520,000	2	9	796	0.16	79	75PF1100(1)00(2)	R75PF1100(1)00(2)
630	250	0.0012	4.0	9.0	13.0	10.0	2,000	2,520,000	2	9	663	0.19	79	75PF1120(1)00(2)	R75PF1120(1)00(2)
630	250	0.0015	4.0	9.0	13.0	10.0	2,000	2,520,000	3	9	531	0.24	79	75PF1150(1)00(2)	R75PF1150(1)00(2)
630	250	0.0018	4.0	9.0	13.0	10.0	2,000	2,520,000	4	9	442	0.28	79	75PF1180(1)00(2)	R75PF1180(1)00(2)
630	250	0.0022	4.0	9.0	13.0	10.0	2,000	2,520,000	4	9	362	0.35	79	75PF1220(1)00(2)	R75PF1220(1)00(2)
630	250	0.0027	4.0	9.0	13.0	10.0	2,000	2,520,000	5	9	295	0.42	79	75PF1270(1)00(2)	R75PF1270(1)00(2)
630	250	0.0033	4.0	9.0	13.0	10.0	2,000	2,520,000	7	9	241	0.52	79	75PF1330(1)00(2)	R75PF1330(1)00(2)
630	250	0.0039	4.0	9.0	13.0	10.0	2,000	2,520,000	8	9	204	0.61	79	75PF1390(1)00(2)	R75PF1390(1)00(2)
630	250	0.0047	4.0	9.0	13.0	10.0	2,000	2,520,000	9	9	169	0.74	79	75PF1470(1)00(2)	R75PF1470(1)00(2)
630	250	0.0056	4.0	9.0	13.0	10.0	2,000	2,520,000	11	9	142	0.88	79	75PF1560(1)00(2)	R75PF1560(1)00(2)
630	250	0.0068	4.0	9.0	13.0	10.0	2,000	2,520,000	14	9	117	1.07	79	75PF1680(1)00(2)	R75PF1680(1)00(2)
630	250	0.0082	4.0	9.0	13.0	10.0	2,000	2,520,000	16	9	97	1.29	79	75PF1820(1)00(2)	R75PF1820(1)00(2)
630	250	0.0100	4.0	9.0	13.0	10.0	2,000	2,520,000	20	9	80	1.57	79	75PF2100(1)30(2)	R75PF2100(1)30(2)
630	250	0.0120	4.0	9.0	13.0	10.0	2,000	2,520,000	24	9	93	1.66	79	75PF2120(1)30(2)	R75PF2120(1)30(2)
630	250	0.0150	5.0	11.0	13.0	10.0	2,000	2,520,000	30	9	74	1.97	69	75PF2150(1)30(2)	R75PF2150(1)30(2)
630	250	0.0180	5.0	11.0	13.0	10.0	2,000	2,520,000	36	9	62	2.16	69	75PF2180(1)30(2)	R75PF2180(1)30(2)
630	250	0.0220	6.0	12.0	13.0	10.0	2,000	2,520,000	44	9	51	2.49	64	75PF2220(1)30(2)	R75PF2220(1)30(2)
630	250	0.0270	5.0	11.0	18.0	15.0	1,000	1,260,000	27	10	41	2.84	60	75PI2270(1)00(2)	R75PI2270(1)00(2)
630	250	0.0330	5.0	11.0	18.0	15.0	1,000	1,260,000	33	10	34	3.14	60	75PI2330(1)00(2)	R75PI2330(1)00(2)
630	250	0.0390	5.0	11.0	18.0	15.0	1,000	1,260,000	39	10	29	3.41	60	75PI2390(1)30(2)	R75PI2390(1)30(2)
630	250	0.0470	5.0	11.0	18.0	15.0	1,000	1,260,000	47	10	24	3.74	60	75PI2470(1)30(2)	R75PI2470(1)30(2)
630	250	0.0560	5.0	11.0	18.0	15.0	1,000	1,260,000	56	10	28	3.42	60	75PI2560(1)30(2)	R75PI2560(1)30(2)
630	250	0.0680	6.0	12.0	18.0	15.0	1,000	1,260,000	68	10	23	3.91	56	75PI2680(1)30(2)	R75PI2680(1)30(2)
630	250	0.0820	6.0	12.0	18.0	15.0	1,000	1,260,000	82	10	19	4.29	56	75PI2820(1)30(2)	R75PI2820(1)30(2)
630	250	0.1000	7.5	13.5	18.0	15.0	1,000	1,260,000	100	10	16	4.98	51	75PI3100(1)30(2)	R75PI3100(1)30(2)
630	250	0.1000	9.0	12.5	18.0	15.0	1,000	1,260,000	100	10	16	5.03	50	75PI3100(1)70(2)	R75PI3100(1)70(2)
630	250	0.1200	7.5	13.5	18.0	15.0	1,000	1,260,000	120	10	13	5.45	51	75PI3120(1)30(2)	R75PI3120(1)30(2)
630	250	0.1200	9.0	12.5	18.0	15.0	1,000	1,260,000	120	10	13	5.51	50	75PI3120(1)70(2)	R75PI3120(1)70(2)
630	250	0.1500	8.5	14.5	18.0	15.0	1,000	1,260,000	150	10	11	6.28	48	75PI3150(1)30(2)	R75PI3150(1)30(2)
630	250	0.1500	13.0	12.0	18.0	15.0	1,000	1,260,000	150	10	11	6.48	45	75PI3150(1)70(2)	R75PI3150(1)70(2)
630	250	0.1800	10.0	16.0	18.0	15.0	1,000	1,260,000	180	10	13	5.85	44	75PI3180(1)30(2)	R75PI3180(1)30(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L					Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
									A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
630	250	0.1800	13.0	12.0	18.0	15.0	1,000	1,260,000	180	10	13	5.80	45	75PI3180(1)70(2)	R75PI3180(1)70(2)
630	250	0.2200	10.0	16.0	18.0	15.0	1,000	1,260,000	220	10	11	6.47	44	75PI3220(1)30(2)	R75PI3220(1)30(2)
630	250	0.2700	11.0	19.0	18.0	15.0	1,000	1,260,000	270	10	18	5.30	40	75PI3270(1)30(2)	R75PI3270(1)30(2)
630	250	0.3300	11.0	19.0	18.0	15.0	1,000	1,260,000	330	10	14	5.86	40	75PI3330(1)30(2)	R75PI3330(1)30(2)
630	250	0.0820	6.0	15.0	26.5	22.5	400	504,000	33	16	33	3.74	43	75PN2820(1)30(2)	R75PN2820(1)30(2)
630	250	0.1000	6.0	15.0	26.5	22.5	400	504,000	40	16	27	4.13	43	75PN3100(1)30(2)	R75PN3100(1)30(2)
630	250	0.1200	6.0	15.0	26.5	22.5	400	504,000	48	16	23	4.52	43	75PN3120(1)30(2)	R75PN3120(1)30(2)
630	250	0.1500	6.0	15.0	26.5	22.5	400	504,000	60	16	18	5.05	43	75PN3150(1)30(2)	R75PN3150(1)30(2)
630	250	0.1800	7.0	16.0	26.5	22.5	400	504,000	72	16	15	5.69	41	75PN3180(1)30(2)	R75PN3180(1)30(2)
630	250	0.2200	7.0	16.0	26.5	22.5	400	504,000	88	16	12	6.30	41	75PN3220(1)30(2)	R75PN3220(1)30(2)
630	250	0.2700	8.5	17.0	26.5	22.5	400	504,000	108	16	12	6.65	38	75PN3270(1)30(2)	R75PN3270(1)30(2)
630	250	0.3300	10.0	18.5	26.5	22.5	400	504,000	132	16	10	7.61	36	75PN3330(1)30(2)	R75PN3330(1)30(2)
630	250	0.3900	10.0	18.5	26.5	22.5	400	504,000	156	16	10	7.40	36	75PN3390(1)30(2)	R75PN3390(1)30(2)
630	250	0.4700	11.0	20.0	26.5	22.5	400	504,000	188	16	8	8.34	34	75PN3470(1)30(2)	R75PN3470(1)30(2)
630	250	0.5600	11.0	20.0	26.5	22.5	400	504,000	224	16	11	7.20	34	75PN3560(1)30(2)	R75PN3560(1)30(2)
630	250	0.6800	13.0	22.0	26.5	22.5	400	504,000	272	16	9	8.25	31	75PN3680(1)30(2)	R75PN3680(1)30(2)
630	250	0.3900	9.0	17.0	32.0	27.5	180	226,800	70	18	10	7.49	35	75PR3390(1)30(2)	R75PR3390(1)30(2)
630	250	0.4700	9.0	17.0	32.0	27.5	180	226,800	85	18	8	8.22	35	75PR3470(1)40(2)	R75PR3470(1)40(2)
630	250	0.5600	11.0	20.0	32.0	27.5	180	226,800	101	18	11	7.49	31	75PR3560(1)30(2)	R75PR3560(1)30(2)
630	250	0.6800	11.0	20.0	32.0	27.5	180	226,800	122	18	9	8.25	31	75PR3680(1)30(2)	R75PR3680(1)30(2)
630	250	0.8200	13.0	22.0	32.0	27.5	180	226,800	148	18	10	8.42	29	75PR3820(1)30(2)	R75PR3820(1)30(2)
630	250	1.0000	13.0	22.0	32.0	27.5	180	226,800	180	18	8	9.30	29	75PR4100(1)30(2)	R75PR4100(1)30(2)
630	250	1.2000	14.0	28.0	32.0	27.5	180	226,800	216	18	7	10.75	26	75PR4120(1)40(2)	R75PR4120(1)40(2)
630	250	1.5000	14.0	28.0	32.0	27.5	180	226,800	270	18	5	12.02	26	75PR4150(1)30(2)	R75PR4150(1)30(2)
630	250	1.8000	18.0	33.0	32.0	27.5	180	226,800	324	18	4	14.04	23	75PR4180(1)30(2)	R75PR4180(1)30(2)
630	250	2.2000	18.0	33.0	32.0	27.5	180	226,800	396	18	4	15.52	23	75PR4220(1)30(2)	R75PR4220(1)30(2)
630	250	2.7000	22.0	37.0	32.0	27.5	180	226,800	486	18	9	10.44	21	75PR4270(1)30(2)	R75PR4270(1)30(2)
630	250	3.3000	22.0	37.0	32.0	27.5	180	226,800	594	18	7	11.54	21	75PR4330(1)30(2)	R75PR4330(1)30(2)
630	250	0.6800	11.0	22.0	41.5	37.5	90	113,400	61	20	9	8.88	27	75PW3680(1)30(2)	R75PW3680(1)30(2)
630	250	0.8200	11.0	22.0	41.5	37.5	90	113,400	74	20	10	8.72	27	75PW3820(1)30(2)	R75PW3820(1)30(2)
630	250	1.0000	11.0	22.0	41.5	37.5	90	113,400	90	20	8	9.63	27	75PW4100(1)30(2)	R75PW4100(1)30(2)
630	250	1.2000	13.0	24.0	41.5	37.5	90	113,400	108	20	7	10.93	25	75PW4120(1)30(2)	R75PW4120(1)30(2)
630	250	1.5000	13.0	24.0	41.5	37.5	90	113,400	135	20	5	12.22	25	75PW4150(1)30(2)	R75PW4150(1)30(2)
630	250	1.8000	16.0	28.5	41.5	37.5	90	113,400	162	20	4	14.17	23	75PW4180(1)30(2)	R75PW4180(1)30(2)
630	250	2.2000	16.0	28.5	41.5	37.5	90	113,400	198	20	4	15.66	23	75PW4220(1)30(2)	R75PW4220(1)30(2)
630	250	2.7000	19.0	32.0	41.5	37.5	90	113,400	243	20	9	10.46	21	75PW4270(1)30(2)	R75PW4270(1)30(2)
630	250	3.3000	19.0	32.0	41.5	37.5	90	113,400	297	20	7	11.56	21	75PW4330(1)30(2)	R75PW4330(1)30(2)
630	250	3.9000	20.0	40.0	41.5	37.5	90	113,400	351	20	6	13.20	19	75PW4390(1)30(2)	R75PW4390(1)30(2)
630	250	4.7000	20.0	40.0	41.5	37.5	90	113,400	423	20	5	14.49	19	75PW4470(1)30(2)	R75PW4470(1)30(2)
630	250	5.6000	24.0	44.0	41.5	37.5	90	113,400	504	20	4	16.50	17	75PW4560(1)30(2)	R75PW4560(1)30(2)
630	250	6.8000	30.0	45.0	41.5	37.5	90	113,400	612	20	7	13.33	16	75PW4680(1)20(2)	R75PW4680(1)20(2)
630	250	8.2000	30.0	45.0	41.5	37.5	90	113,400	738	20	6	14.64	16	75PW4820(1)30(2)	R75PW4820(1)30(2)
1000	250	0.0120	5.0	11.0	18.0	15.0	2,000	4,000,000	24	10	93	1.88	60	75QI2120(1)00(2)	R75QI2120(1)00(2)
1000	250	0.0150	5.0	11.0	18.0	15.0	2,000	4,000,000	30	10	74	2.11	60	75QI2150(1)00(2)	R75QI2150(1)00(2)
1000	250	0.0180	5.0	11.0	18.0	15.0	2,000	4,000,000	36	10	62	2.32	60	75QI2180(1)00(2)	R75QI2180(1)00(2)
1000	250	0.0220	5.0	11.0	18.0	15.0	2,000	4,000,000	44	10	51	2.56	60	75QI2220(1)00(2)	R75QI2220(1)00(2)
1000	250	0.0270	6.0	12.0	18.0	15.0	2,000	4,000,000	54	10	41	2.94	56	75QI2270(1)00(2)	R75QI2270(1)00(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			W	H	L				A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
1000	250	0.0330	6.0	12.0	18.0	15.0	2,000	4,000,000	66	10	34	3.25	56	75QI2330(1)00(2)	R75QI2330(1)00(2)
1000	250	0.0390	7.5	13.5	18.0	15.0	2,000	4,000,000	78	10	29	3.72	51	75QI2390(1)00(2)	R75QI2390(1)00(2)
1000	250	0.0470	7.5	13.5	18.0	15.0	2,000	4,000,000	94	10	24	4.08	51	75QI2470(1)00(2)	R75QI2470(1)00(2)
1000	250	0.0470	9.0	12.5	18.0	15.0	2,000	4,000,000	94	10	24	4.12	50	75QI2470(1)60(2)	R75QI2470(1)60(2)
1000	250	0.0560	8.5	14.5	18.0	15.0	2,000	4,000,000	112	10	28	3.84	48	75QI2560(1)00(2)	R75QI2560(1)00(2)
1000	250	0.0560	9.0	12.5	18.0	15.0	2,000	4,000,000	112	10	28	3.77	50	75QI2560(1)60(2)	R75QI2560(1)60(2)
1000	250	0.0680	8.5	14.5	18.0	15.0	2,000	4,000,000	136	10	23	4.23	48	75QI2680(1)00(2)	R75QI2680(1)00(2)
1000	250	0.0680	13.0	12.0	18.0	15.0	2,000	4,000,000	136	10	23	4.36	45	75QI2680(1)60(2)	R75QI2680(1)60(2)
1000	250	0.0820	10.0	16.0	18.0	15.0	2,000	4,000,000	164	10	19	4.83	44	75QI2820(1)00(2)	R75QI2820(1)00(2)
1000	250	0.1000	11.0	19.0	18.0	15.0	2,000	4,000,000	200	10	16	5.59	40	75QI3100(1)00(2)	R75QI3100(1)00(2)
1000	250	0.0470	6.0	15.0	26.5	22.5	800	1,600,000	38	16	51	3.01	43	75QN2470(1)00(2)	R75QN2470(1)00(2)
1000	250	0.0560	6.0	15.0	26.5	22.5	800	1,600,000	45	16	48	3.09	43	75QN2560(1)00(2)	R75QN2560(1)00(2)
1000	250	0.0680	6.0	15.0	26.5	22.5	800	1,600,000	54	16	40	3.40	43	75QN2680(1)00(2)	R75QN2680(1)00(2)
1000	250	0.0820	7.0	16.0	26.5	22.5	800	1,600,000	66	16	33	3.84	41	75QN2820(1)00(2)	R75QN2820(1)00(2)
1000	250	0.1000	7.0	16.0	26.5	22.5	800	1,600,000	80	16	27	4.24	41	75QN3100(1)00(2)	R75QN3100(1)00(2)
1000	250	0.1200	8.5	17.0	26.5	22.5	800	1,600,000	96	16	23	4.81	38	75QN3120(1)00(2)	R75QN3120(1)00(2)
1000	250	0.1500	10.0	18.5	26.5	22.5	800	1,600,000	120	16	18	5.57	36	75QN3150(1)00(2)	R75QN3150(1)00(2)
1000	250	0.1800	10.0	18.5	26.5	22.5	800	1,600,000	144	16	15	6.10	36	75QN3180(1)00(2)	R75QN3180(1)00(2)
1000	250	0.2200	11.0	20.0	26.5	22.5	800	1,600,000	176	16	12	6.92	34	75QN3220(1)00(2)	R75QN3220(1)00(2)
1000	250	0.1500	9.0	17.0	32.0	27.5	350	700,000	53	18	18	5.63	35	75QR3150(1)00(2)	R75QR3150(1)00(2)
1000	250	0.1800	9.0	17.0	32.0	27.5	350	700,000	63	18	15	6.17	35	75QR3180(1)00(2)	R75QR3180(1)00(2)
1000	250	0.2200	11.0	20.0	32.0	27.5	350	700,000	77	18	12	7.20	31	75QR3220(1)10(2)	R75QR3220(1)10(2)
1000	250	0.2700	11.0	20.0	32.0	27.5	350	700,000	95	18	12	7.35	31	75QR3270(1)00(2)	R75QR3270(1)00(2)
1000	250	0.3300	13.0	22.0	32.0	27.5	350	700,000	116	18	10	8.44	29	75QR3330(1)00(2)	R75QR3330(1)00(2)
1000	250	0.3900	13.0	22.0	32.0	27.5	350	700,000	137	18	10	8.21	29	75QR3390(1)00(2)	R75QR3390(1)00(2)
1000	250	0.4700	13.0	25.0	32.0	27.5	350	700,000	165	18	8	9.23	28	75QR3470(1)10(2)	R75QR3470(1)10(2)
1000	250	0.5600	14.0	28.0	32.0	27.5	350	700,000	196	18	11	8.21	26	75QR3560(1)10(2)	R75QR3560(1)10(2)
1000	250	0.6800	18.0	33.0	32.0	27.5	350	700,000	238	18	9	9.65	23	75QR3680(1)00(2)	R75QR3680(1)00(2)
1000	250	0.8200	18.0	33.0	32.0	27.5	350	700,000	287	18	10	9.48	23	75QR3820(1)00(2)	R75QR3820(1)00(2)
1000	250	1.0000	18.0	33.0	32.0	27.5	350	700,000	350	18	8	10.47	23	75QR4100(1)00(2)	R75QR4100(1)00(2)
1000	250	1.2000	22.0	37.0	32.0	27.5	350	700,000	420	18	7	12.05	21	75QR4120(1)00(2)	R75QR4120(1)00(2)
1000	250	1.5000	22.0	37.0	32.0	27.5	350	700,000	525	18	5	13.48	21	75QR4150(1)00(2)	R75QR4150(1)00(2)
1000	250	0.2700	11.0	22.0	41.5	37.5	200	400,000	54	20	12	7.91	27	75QW3270(1)00(2)	R75QW3270(1)00(2)
1000	250	0.3300	11.0	22.0	41.5	37.5	200	400,000	66	20	10	8.75	27	75QW3330(1)00(2)	R75QW3330(1)00(2)
1000	250	0.3900	11.0	22.0	41.5	37.5	200	400,000	78	20	10	8.50	27	75QW3390(1)00(2)	R75QW3390(1)00(2)
1000	250	0.4700	11.0	22.0	41.5	37.5	200	400,000	94	20	8	9.34	27	75QW3470(1)00(2)	R75QW3470(1)00(2)
1000	250	0.5600	13.0	24.0	41.5	37.5	200	400,000	112	20	11	8.35	25	75QW3560(1)00(2)	R75QW3560(1)00(2)
1000	250	0.6800	13.0	24.0	41.5	37.5	200	400,000	136	20	9	9.20	25	75QW3680(1)00(2)	R75QW3680(1)00(2)
1000	250	0.8200	16.0	28.5	41.5	37.5	200	400,000	164	20	10	9.56	23	75QW3820(1)00(2)	R75QW3820(1)00(2)
1000	250	1.0000	16.0	28.5	41.5	37.5	200	400,000	200	20	8	10.56	23	75QW4100(1)00(2)	R75QW4100(1)00(2)
1000	250	1.2000	19.0	32.0	41.5	37.5	200	400,000	240	20	7	12.08	21	75QW4120(1)00(2)	R75QW4120(1)00(2)
1000	250	1.5000	19.0	32.0	41.5	37.5	200	400,000	300	20	5	13.50	21	75QW4150(1)00(2)	R75QW4150(1)00(2)
1000	250	1.8000	20.0	40.0	41.5	37.5	200	400,000	360	20	4	15.53	19	75QW4180(1)00(2)	R75QW4180(1)00(2)
1000	250	2.2000	20.0	40.0	41.5	37.5	200	400,000	440	20	4	17.17	19	75QW4220(1)00(2)	R75QW4220(1)00(2)
1000	250	2.2000	24.0	44.0	41.5	37.5	200	400,000	440	20	4	17.91	17	75QW4220(1)30(2)	R75QW4220(1)30(2)
1000	250	2.7000	24.0	44.0	41.5	37.5	200	400,000	540	20	9	11.46	17	75QW4270(1)00(2)	R75QW4270(1)00(2)
1000	250	3.3000	30.0	45.0	41.5	37.5	200	400,000	660	20	7	13.13	16	75QW4330(1)00(2)	R75QW4330(1)00(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			W	H	L				A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
1000	250	3.9000	30.0	45.0	41.5	37.5	200	400,000	780	20	6	14.28	16	75QW4390(1)00(2)	R75QW4390(1)00(2)
1000	400	0.00022	3.0	8.0	10.0	7.5	4,000	8,000,000	1	8	3,617	0.06	98	75QD0220(1)30(2)	R75QD0220(1)30(2)
1000	400	0.00027	3.0	8.0	10.0	7.5	4,000	8,000,000	1	8	2,947	0.07	98	75QD0270(1)30(2)	R75QD0270(1)30(2)
1000	400	0.00033	3.0	8.0	10.0	7.5	4,000	8,000,000	1	8	2,411	0.08	98	75QD0330(1)30(2)	R75QD0330(1)30(2)
1000	400	0.00039	3.0	8.0	10.0	7.5	4,000	8,000,000	2	8	2,040	0.10	98	75QD0390(1)30(2)	R75QD0390(1)30(2)
1000	400	0.00047	3.0	8.0	10.0	7.5	4,000	8,000,000	2	8	1,693	0.12	98	75QD0470(1)30(2)	R75QD0470(1)30(2)
1000	400	0.00056	3.0	8.0	10.0	7.5	4,000	8,000,000	2	8	1,421	0.14	98	75QD0560(1)30(2)	R75QD0560(1)30(2)
1000	400	0.00068	3.0	8.0	10.0	7.5	4,000	8,000,000	3	8	1,170	0.17	98	75QD0680(1)30(2)	R75QD0680(1)30(2)
1000	400	0.00082	3.0	8.0	10.0	7.5	4,000	8,000,000	3	8	970	0.21	98	75QD0820(1)30(2)	R75QD0820(1)30(2)
1000	400	0.0010	3.0	8.0	10.0	7.5	4,000	8,000,000	4	8	796	0.25	98	75QD1100(1)30(2)	R75QD1100(1)30(2)
1000	400	0.0012	4.0	9.0	10.0	7.5	4,000	8,000,000	5	8	663	0.30	88	75QD1120(1)30(2)	R75QD1120(1)30(2)
1000	400	0.0015	4.0	9.0	10.0	7.5	4,000	8,000,000	6	8	531	0.38	88	75QD1150(1)30(2)	R75QD1150(1)30(2)
1000	400	0.0018	4.0	9.0	10.0	7.5	4,000	8,000,000	7	8	442	0.45	88	75QD1180(1)30(2)	R75QD1180(1)30(2)
1000	400	0.0022	4.0	9.0	10.0	7.5	4,000	8,000,000	9	8	362	0.55	88	75QD1220(1)30(2)	R75QD1220(1)30(2)
1000	400	0.0027	4.0	9.0	10.0	7.5	4,000	8,000,000	11	8	295	0.68	88	75QD1270(1)30(2)	R75QD1270(1)30(2)
1000	400	0.0033	4.0	9.0	10.0	7.5	4,000	8,000,000	13	8	241	0.83	88	75QD1330(1)30(2)	R75QD1330(1)30(2)
1000	400	0.0039	5.0	10.5	10.0	7.5	4,000	8,000,000	16	8	204	0.98	78	75QD1390(1)30(2)	R75QD1390(1)30(2)
1000	400	0.0047	5.0	10.5	10.0	7.5	4,000	8,000,000	19	8	169	1.18	78	75QD1470(1)30(2)	R75QD1470(1)30(2)
1000	400	0.0056	5.0	10.5	10.0	7.5	4,000	8,000,000	22	8	142	1.34	78	75QD1560(1)30(2)	R75QD1560(1)30(2)
1000	400	0.0068	6.0	12.0	10.5	7.5	4,000	8,000,000	27	8	117	1.57	69	75QD1680(1)30(2)	R75QD1680(1)30(2)
1000	400	0.0082	6.0	12.0	10.5	7.5	4,000	8,000,000	33	8	97	1.72	69	75QD1820(1)30(2)	R75QD1820(1)30(2)
1250	600	0.0082	5.0	11.0	18.0	15.0	3,300	8,250,000	27	10	97	1.85	60	75RI1820(1)30(2)	R75RI1820(1)30(2)
1250	600	0.0100	5.0	11.0	18.0	15.0	3,300	8,250,000	33	10	80	2.04	60	75RI2100(1)30(2)	R75RI2100(1)30(2)
1250	600	0.0120	6.0	12.0	18.0	15.0	3,300	8,250,000	40	10	66	2.32	56	75RI2120(1)30(2)	R75RI2120(1)30(2)
1250	600	0.0150	6.0	12.0	18.0	15.0	3,300	8,250,000	50	10	53	2.60	56	75RI2150(1)30(2)	R75RI2150(1)30(2)
1250	600	0.0180	7.5	13.5	18.0	15.0	3,300	8,250,000	59	10	44	2.99	51	75RI2180(1)30(2)	R75RI2180(1)30(2)
1250	600	0.0220	7.5	13.5	18.0	15.0	3,300	8,250,000	73	10	36	3.30	51	75RI2220(1)30(2)	R75RI2220(1)30(2)
1250	600	0.0220	9.0	12.5	18.0	15.0	3,300	8,250,000	73	10	36	3.34	50	75RI2220(1)70(2)	R75RI2220(1)70(2)
1250	600	0.0270	8.5	14.5	18.0	15.0	3,300	8,250,000	89	10	29	3.77	48	75RI2270(1)30(2)	R75RI2270(1)30(2)
1250	600	0.0270	13.0	12.0	18.0	15.0	3,300	8,250,000	89	10	29	3.89	45	75RI2270(1)70(2)	R75RI2270(1)70(2)
1250	600	0.0330	10.0	16.0	18.0	15.0	3,300	8,250,000	109	10	24	4.34	44	75RI2330(1)30(2)	R75RI2330(1)30(2)
1250	600	0.0330	13.0	12.0	18.0	15.0	3,300	8,250,000	109	10	24	4.30	45	75RI2330(1)70(2)	R75RI2330(1)70(2)
1250	600	0.0390	10.0	16.0	18.0	15.0	3,300	8,250,000	129	10	20	4.72	44	75RI2390(1)30(2)	R75RI2390(1)30(2)
1250	600	0.0470	11.0	19.0	18.0	15.0	3,300	8,250,000	155	10	17	5.42	40	75RI2470(1)30(2)	R75RI2470(1)30(2)
1250	600	0.0560	11.0	19.0	18.0	15.0	3,300	8,250,000	185	10	20	5.00	40	75RI2560(1)30(2)	R75RI2560(1)30(2)
1250	600	0.0330	6.0	15.0	26.5	22.5	2,100	5,250,000	69	16	24	4.37	43	75RN2330(1)30(2)	R75RN2330(1)30(2)
1250	600	0.0390	6.0	15.0	26.5	22.5	2,100	5,250,000	82	16	20	4.75	43	75RN2390(1)30(2)	R75RN2390(1)30(2)
1250	600	0.0470	7.0	16.0	26.5	22.5	2,100	5,250,000	99	16	17	5.37	41	75RN2470(1)30(2)	R75RN2470(1)30(2)
1250	600	0.0560	7.0	16.0	26.5	22.5	2,100	5,250,000	118	16	20	4.95	41	75RN2560(1)30(2)	R75RN2560(1)30(2)
1250	600	0.0680	8.5	17.0	26.5	22.5	2,100	5,250,000	143	16	16	5.64	38	75RN2680(1)30(2)	R75RN2680(1)30(2)
1250	600	0.0820	10.0	18.5	26.5	22.5	2,100	5,250,000	172	16	14	6.41	36	75RN2820(1)30(2)	R75RN2820(1)30(2)
1250	600	0.1000	10.0	18.5	26.5	22.5	2,100	5,250,000	210	16	11	7.08	36	75RN3100(1)30(2)	R75RN3100(1)30(2)
1250	600	0.1200	11.0	20.0	26.5	22.5	2,100	5,250,000	252	16	9	7.97	34	75RN3120(1)30(2)	R75RN3120(1)30(2)
1250	600	0.1500	13.0	22.0	26.5	22.5	2,100	5,250,000	315	16	7	9.26	31	75RN3150(1)30(2)	R75RN3150(1)30(2)
1250	600	0.1000	9.0	17.0	32.0	27.5	750	1,875,000	75	18	11	7.17	35	75RR3100(1)40(2)	R75RR3100(1)40(2)
1250	600	0.1200	9.0	17.0	32.0	27.5	750	1,875,000	90	18	9	7.85	35	75RR3120(1)40(2)	R75RR3120(1)40(2)
1250	600	0.1500	11.0	20.0	32.0	27.5	750	1,875,000	113	18	7	9.26	31	75RR3150(1)40(2)	R75RR3150(1)40(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L					Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
									A_{pk}	nH	mΩ	A_{rms}	(°C/W)		
1250	600	0.1800	11.0	20.0	32.0	27.5	750	1,875,000	135	18	6	10.14	31	75RR3180(1)40(2)	R75RR3180(1)40(2)
1250	600	0.2200	13.0	22.0	32.0	27.5	750	1,875,000	165	18	5	11.65	29	75RR3220(1)40(2)	R75RR3220(1)40(2)
1250	600	0.2700	13.0	25.0	32.0	27.5	750	1,875,000	203	18	10	8.48	28	75RR3270(1)40(2)	R75RR3270(1)40(2)
1250	600	0.3300	14.0	28.0	32.0	27.5	750	1,875,000	248	18	8	9.67	26	75RR3330(1)30(2)	R75RR3330(1)30(2)
1250	600	0.3900	18.0	33.0	32.0	27.5	750	1,875,000	293	18	8	10.33	23	75RR3390(1)40(2)	R75RR3390(1)40(2)
1250	600	0.4700	18.0	33.0	32.0	27.5	750	1,875,000	353	18	7	11.35	23	75RR3470(1)40(2)	R75RR3470(1)40(2)
1250	600	0.5600	18.0	33.0	32.0	27.5	750	1,875,000	420	18	6	12.38	23	75RR3560(1)40(2)	R75RR3560(1)40(2)
1250	600	0.6800	22.0	37.0	32.0	27.5	750	1,875,000	510	18	5	14.35	21	75RR3680(1)40(2)	R75RR3680(1)40(2)
1250	600	0.8200	22.0	37.0	32.0	27.5	750	1,875,000	615	18	4	15.75	21	75RR3820(1)40(2)	R75RR3820(1)40(2)
1250	600	0.2700	11.0	22.0	41.5	37.5	550	1,375,000	149	20	10	8.58	27	75RW3270(1)30(2)	R75RW3270(1)30(2)
1250	600	0.3300	13.0	24.0	41.5	37.5	550	1,375,000	182	20	8	9.83	25	75RW3330(1)20(2)	R75RW3330(1)20(2)
1250	600	0.3900	13.0	24.0	41.5	37.5	550	1,375,000	215	20	8	9.85	25	75RW3390(1)30(2)	R75RW3390(1)30(2)
1250	600	0.4700	16.0	28.5	41.5	37.5	550	1,375,000	259	20	7	11.44	23	75RW3470(1)40(2)	R75RW3470(1)40(2)
1250	600	0.5600	16.0	28.5	41.5	37.5	550	1,375,000	308	20	6	12.49	23	75RW3560(1)40(2)	R75RW3560(1)40(2)
1250	600	0.6800	19.0	32.0	41.5	37.5	550	1,375,000	374	20	5	14.38	21	75RW3680(1)30(2)	R75RW3680(1)30(2)
1250	600	0.8200	19.0	32.0	41.5	37.5	550	1,375,000	451	20	4	15.79	21	75RW3820(1)40(2)	R75RW3820(1)40(2)
1250	600	1.0000	20.0	40.0	41.5	37.5	550	1,375,000	550	20	3	18.30	19	75RW4100(1)30(2)	R75RW4100(1)30(2)
1250	600	1.2000	20.0	40.0	41.5	37.5	550	1,375,000	660	20	4	16.37	19	75RW4120(1)40(2)	R75RW4120(1)40(2)
1250	600	1.5000	24.0	44.0	41.5	37.5	550	1,375,000	825	20	3	19.10	17	75RW4150(1)40(2)	R75RW4150(1)40(2)
1250	600	1.8000	24.0	44.0	41.5	37.5	550	1,375,000	990	20	3	20.92	17	75RW4180(1)30(2)	R75RW4180(1)30(2)
1250	600	2.2000	30.0	45.0	41.5	37.5	550	1,375,000	1,210	20	2	23.98	16	75RW4220(1)30(2)	R75RW4220(1)30(2)
1600	650	0.0039	4.0	10.0	18.0	15.0	6,000	19,200,000	23	10	204	1.22	65	75TI1390(1)30(2)	R75TI1390(1)30(2)
1600	650	0.0047	4.0	10.0	18.0	15.0	6,000	19,200,000	28	10	169	1.34	65	75TI1470(1)30(2)	R75TI1470(1)30(2)
1600	650	0.0056	5.0	11.0	18.0	15.0	6,000	19,200,000	34	10	142	1.53	60	75TI1560(1)30(2)	R75TI1560(1)30(2)
1600	650	0.0068	5.0	11.0	18.0	15.0	6,000	19,200,000	41	10	117	1.68	60	75TI1680(1)30(2)	R75TI1680(1)30(2)
1600	650	0.0082	6.0	12.0	18.0	15.0	6,000	19,200,000	49	10	97	1.92	56	75TI1820(1)30(2)	R75TI1820(1)30(2)
1600	650	0.0100	6.0	12.0	18.0	15.0	6,000	19,200,000	60	10	80	2.12	56	75TI2100(1)30(2)	R75TI2100(1)30(2)
1600	650	0.0120	7.5	13.5	18.0	15.0	6,000	19,200,000	72	10	66	2.44	51	75TI2120(1)30(2)	R75TI2120(1)30(2)
1600	650	0.0150	7.5	13.5	18.0	15.0	6,000	19,200,000	90	10	53	2.73	51	75TI2150(1)30(2)	R75TI2150(1)30(2)
1600	650	0.0180	8.5	14.5	18.0	15.0	6,000	19,200,000	108	10	44	3.08	48	75TI2180(1)30(2)	R75TI2180(1)30(2)
1600	650	0.0180	9.0	12.5	18.0	15.0	6,000	19,200,000	108	10	44	3.02	50	75TI2180(1)70(2)	R75TI2180(1)70(2)
1600	650	0.0220	10.0	16.0	18.0	15.0	6,000	19,200,000	132	10	36	3.54	44	75TI2220(1)30(2)	R75TI2220(1)30(2)
1600	650	0.0220	13.0	12.0	18.0	15.0	6,000	19,200,000	132	10	36	3.51	45	75TI2220(1)70(2)	R75TI2220(1)70(2)
1600	650	0.0270	10.0	16.0	18.0	15.0	6,000	19,200,000	162	10	29	3.92	44	75TI2270(1)30(2)	R75TI2270(1)30(2)
1600	650	0.0330	11.0	19.0	18.0	15.0	6,000	19,200,000	198	10	24	4.54	40	75TI2330(1)30(2)	R75TI2330(1)30(2)
1600	650	0.0270	6.0	15.0	26.5	22.5	3,000	9,600,000	81	16	29	3.95	43	75TN2270(1)30(2)	R75TN2270(1)30(2)
1600	650	0.0330	7.0	16.0	26.5	22.5	3,000	9,600,000	99	16	24	4.50	41	75TN2330(1)30(2)	R75TN2330(1)30(2)
1600	650	0.0390	7.0	16.0	26.5	22.5	3,000	9,600,000	117	16	20	4.89	41	75TN2390(1)30(2)	R75TN2390(1)30(2)
1600	650	0.0470	8.5	17.0	26.5	22.5	3,000	9,600,000	141	16	17	5.55	38	75TN2470(1)30(2)	R75TN2470(1)30(2)
1600	650	0.0560	10.0	18.5	26.5	22.5	3,000	9,600,000	168	16	20	5.30	36	75TN2560(1)30(2)	R75TN2560(1)30(2)
1600	650	0.0680	10.0	18.5	26.5	22.5	3,000	9,600,000	204	16	16	5.84	36	75TN2680(1)30(2)	R75TN2680(1)30(2)
1600	650	0.0820	11.0	20.0	26.5	22.5	3,000	9,600,000	246	16	14	6.58	34	75TN2820(1)30(2)	R75TN2820(1)30(2)
1600	650	0.1000	13.0	22.0	26.5	22.5	3,000	9,600,000	300	16	11	7.56	31	75TN3100(1)30(2)	R75TN3100(1)30(2)
1600	650	0.1200	13.0	22.0	26.5	22.5	3,000	9,600,000	360	16	9	8.29	31	75TN3120(1)30(2)	R75TN3120(1)30(2)
1600	650	0.0680	9.0	17.0	32.0	27.5	1,500	4,800,000	102	18	16	5.91	35	75TR2680(1)30(2)	R75TR2680(1)30(2)
1600	650	0.0820	9.0	17.0	32.0	27.5	1,500	4,800,000	123	18	14	6.49	35	75TR2820(1)30(2)	R75TR2820(1)30(2)
1600	650	0.1000	11.0	20.0	32.0	27.5	1,500	4,800,000	150	18	11	7.56	31	75TR3100(1)40(2)	R75TR3100(1)40(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 85°C A_{rms}	(°C/W)		
1600	650	0.1200	11.0	20.0	32.0	27.5	1,500	4,800,000	180	18	9	8.28	31	75TR3120(1)30(2)	R75TR3120(1)30(2)
1600	650	0.1500	13.0	22.0	32.0	27.5	1,500	4,800,000	225	18	7	9.62	29	75TR3150(1)30(2)	R75TR3150(1)30(2)
1600	650	0.1800	13.0	25.0	32.0	27.5	1,500	4,800,000	270	18	6	10.79	28	75TR3180(1)20(2)	R75TR3180(1)20(2)
1600	650	0.2200	13.0	25.0	32.0	27.5	1,500	4,800,000	330	18	5	11.93	28	75TR3220(1)40(2)	R75TR3220(1)40(2)
1600	650	0.2700	18.0	33.0	32.0	27.5	1,500	4,800,000	405	18	10	9.33	23	75TR3270(1)30(2)	R75TR3270(1)30(2)
1600	650	0.3300	18.0	33.0	32.0	27.5	1,500	4,800,000	495	18	8	10.31	23	75TR3330(1)30(2)	R75TR3330(1)30(2)
1600	650	0.3900	18.0	33.0	32.0	27.5	1,500	4,800,000	585	18	8	10.33	23	75TR3390(1)30(2)	R75TR3390(1)30(2)
1600	650	0.4700	22.0	37.0	32.0	27.5	1,500	4,800,000	705	18	7	11.93	21	75TR3470(1)30(2)	R75TR3470(1)30(2)
1600	650	0.5600	22.0	37.0	32.0	27.5	1,500	4,800,000	840	18	6	13.02	21	75TR3560(1)30(2)	R75TR3560(1)30(2)
1600	650	0.1800	11.0	22.0	41.5	37.5	750	2,400,000	135	20	6	10.92	27	75TW3180(1)30(2)	R75TW3180(1)30(2)
1600	650	0.2200	13.0	24.0	41.5	37.5	750	2,400,000	165	20	5	12.50	25	75TW3220(1)20(2)	R75TW3220(1)20(2)
1600	650	0.2700	13.0	24.0	41.5	37.5	750	2,400,000	203	20	10	8.89	25	75TW3270(1)30(2)	R75TW3270(1)30(2)
1600	650	0.3300	16.0	28.5	41.5	37.5	750	2,400,000	248	20	8	10.40	23	75TW3330(1)30(2)	R75TW3330(1)30(2)
1600	650	0.3900	16.0	28.5	41.5	37.5	750	2,400,000	293	20	8	10.43	23	75TW3390(1)30(2)	R75TW3390(1)30(2)
1600	650	0.4700	19.0	32.0	41.5	37.5	750	2,400,000	353	20	7	11.95	21	75TW3470(1)20(2)	R75TW3470(1)20(2)
1600	650	0.5600	19.0	32.0	41.5	37.5	750	2,400,000	420	20	6	13.05	21	75TW3560(1)30(2)	R75TW3560(1)30(2)
1600	650	0.6800	20.0	40.0	41.5	37.5	750	2,400,000	510	20	5	15.09	19	75TW3680(1)20(2)	R75TW3680(1)20(2)
1600	650	0.8200	20.0	40.0	41.5	37.5	750	2,400,000	615	20	4	16.57	19	75TW3820(1)30(2)	R75TW3820(1)30(2)
1600	650	1.0000	24.0	44.0	41.5	37.5	750	2,400,000	750	20	3	19.10	17	75TW4100(1)30(2)	R75TW4100(1)30(2)
1600	650	1.2000	24.0	44.0	41.5	37.5	750	2,400,000	900	20	4	17.08	17	75TW4120(1)30(2)	R75TW4120(1)30(2)
1600	650	1.5000	30.0	45.0	41.5	37.5	750	2,400,000	1,125	20	3	19.80	16	75TW4150(1)30(2)	R75TW4150(1)30(2)
2000	700	0.0010	4.0	10.0	18.0	15.0	9,500	38,000,000	10	10	796	0.44	65	75UI1100(1)40(2)	R75UI1100(1)40(2)
2000	700	0.0012	4.0	10.0	18.0	15.0	9,500	38,000,000	11	10	663	0.53	65	75UI1120(1)40(2)	R75UI1120(1)40(2)
2000	700	0.0015	4.0	10.0	18.0	15.0	9,500	38,000,000	14	10	531	0.66	65	75UI1150(1)40(2)	R75UI1150(1)40(2)
2000	700	0.0018	4.0	10.0	18.0	15.0	9,500	38,000,000	17	10	442	0.79	65	75UI1180(1)40(2)	R75UI1180(1)40(2)
2000	700	0.0022	4.0	10.0	18.0	15.0	9,500	38,000,000	21	10	362	0.92	65	75UI1220(1)40(2)	R75UI1220(1)40(2)
2000	700	0.0027	4.0	10.0	18.0	15.0	9,500	38,000,000	26	10	295	1.02	65	75UI1270(1)40(2)	R75UI1270(1)40(2)
2000	700	0.0033	4.0	10.0	18.0	15.0	9,500	38,000,000	31	10	241	1.13	65	75UI1330(1)40(2)	R75UI1330(1)40(2)
2000	700	0.0039	5.0	11.0	18.0	15.0	9,500	38,000,000	37	10	204	1.28	60	75UI1390(1)30(2)	R75UI1390(1)30(2)
2000	700	0.0047	5.0	11.0	18.0	15.0	9,500	38,000,000	45	10	169	1.40	60	75UI1470(1)30(2)	R75UI1470(1)30(2)
2000	700	0.0056	6.0	12.0	18.0	15.0	9,500	38,000,000	53	10	142	1.59	56	75UI1560(1)30(2)	R75UI1560(1)30(2)
2000	700	0.0068	6.0	12.0	18.0	15.0	9,500	38,000,000	65	10	117	1.75	56	75UI1680(1)30(2)	R75UI1680(1)30(2)
2000	700	0.0082	7.5	13.5	18.0	15.0	9,500	38,000,000	78	10	97	2.02	51	75UI1820(1)30(2)	R75UI1820(1)30(2)
2000	700	0.0100	7.5	13.5	18.0	15.0	9,500	38,000,000	95	10	80	2.23	51	75UI2100(1)30(2)	R75UI2100(1)30(2)
2000	700	0.0120	8.5	14.5	18.0	15.0	9,500	38,000,000	114	10	66	2.51	48	75UI2120(1)30(2)	R75UI2120(1)30(2)
2000	700	0.0120	9.0	12.5	18.0	15.0	9,500	38,000,000	114	10	66	2.47	50	75UI2120(1)70(2)	R75UI2120(1)70(2)
2000	700	0.0150	8.5	14.5	18.0	15.0	9,500	38,000,000	143	10	53	2.81	48	75UI2150(1)30(2)	R75UI2150(1)30(2)
2000	700	0.0150	13.0	12.0	18.0	15.0	9,500	38,000,000	143	10	53	2.90	45	75UI2150(1)70(2)	R75UI2150(1)70(2)
2000	700	0.0180	10.0	16.0	18.0	15.0	9,500	38,000,000	171	10	44	3.20	44	75UI2180(1)30(2)	R75UI2180(1)30(2)
2000	700	0.0180	13.0	12.0	18.0	15.0	9,500	38,000,000	171	10	44	3.17	45	75UI2180(1)70(2)	R75UI2180(1)70(2)
2000	700	0.0220	11.0	19.0	18.0	15.0	9,500	38,000,000	209	10	36	3.71	40	75UI2220(1)30(2)	R75UI2220(1)30(2)
2000	700	0.0270	11.0	19.0	18.0	15.0	9,500	38,000,000	257	10	29	4.11	40	75UI2270(1)30(2)	R75UI2270(1)30(2)
2000	700	0.0047	6.0	15.0	26.5	22.5	4,000	16,000,000	19	16	169	1.65	43	75UN1470(1)30(2)	R75UN1470(1)30(2)
2000	700	0.0056	6.0	15.0	26.5	22.5	4,000	16,000,000	22	16	142	1.80	43	75UN1560(1)30(2)	R75UN1560(1)30(2)
2000	700	0.0068	6.0	15.0	26.5	22.5	4,000	16,000,000	27	16	117	1.98	43	75UN1680(1)30(2)	R75UN1680(1)30(2)
2000	700	0.0082	6.0	15.0	26.5	22.5	4,000	16,000,000	33	16	97	2.18	43	75UN1820(1)30(2)	R75UN1820(1)30(2)
2000	700	0.0100	6.0	15.0	26.5	22.5	4,000	16,000,000	40	16	80	2.41	43	75UN2100(1)30(2)	R75UN2100(1)30(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH	mΩ	A_{rms}	(°C/W)	KEMET Internal Part Number	Customer Part Number
										Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 85°C			
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}	KEMET Internal Part Number	Customer Part Number
			W	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 85°C A_{rms}	(°C/W)		
2000	700	0.0120	6.0	15.0	26.5	22.5	4,000	16,000,000	48	16	66	2.64	43	75UN2120(1)30(2)	R75UN2120(1)30(2)
2000	700	0.0150	6.0	15.0	26.5	22.5	4,000	16,000,000	60	16	53	2.95	43	75UN2150(1)30(2)	R75UN2150(1)30(2)
2000	700	0.0180	6.0	15.0	26.5	22.5	4,000	16,000,000	72	16	44	3.23	43	75UN2180(1)30(2)	R75UN2180(1)30(2)
2000	700	0.0220	6.0	15.0	26.5	22.5	4,000	16,000,000	88	16	36	3.57	43	75UN2220(1)30(2)	R75UN2220(1)30(2)
2000	700	0.0270	7.0	16.0	26.5	22.5	4,000	16,000,000	108	16	29	4.07	41	75UN2270(1)30(2)	R75UN2270(1)30(2)
2000	700	0.0330	8.5	17.0	26.5	22.5	4,000	16,000,000	132	16	24	4.65	38	75UN2330(1)30(2)	R75UN2330(1)30(2)
2000	700	0.0390	10.0	18.5	26.5	22.5	4,000	16,000,000	156	16	20	5.23	36	75UN2390(1)30(2)	R75UN2390(1)30(2)
2000	700	0.0470	10.0	18.5	26.5	22.5	4,000	16,000,000	188	16	17	5.74	36	75UN2470(1)30(2)	R75UN2470(1)30(2)
2000	700	0.0560	11.0	20.0	26.5	22.5	4,000	16,000,000	224	16	20	5.44	34	75UN2560(1)30(2)	R75UN2560(1)30(2)
2000	700	0.0680	13.0	22.0	26.5	22.5	4,000	16,000,000	272	16	16	6.24	31	75UN2680(1)30(2)	R75UN2680(1)30(2)
2000	700	0.0470	9.0	17.0	32.0	27.5	2,000	8,000,000	94	18	17	5.81	35	75UR2470(1)30(2)	R75UR2470(1)30(2)
2000	700	0.0560	9.0	17.0	32.0	27.5	2,000	8,000,000	112	18	20	5.36	35	75UR2560(1)30(2)	R75UR2560(1)30(2)
2000	700	0.0680	9.0	17.0	32.0	27.5	2,000	8,000,000	136	18	16	5.91	35	75UR2680(1)40(2)	R75UR2680(1)40(2)
2000	700	0.0820	11.0	20.0	32.0	27.5	2,000	8,000,000	164	18	14	6.85	31	75UR2820(1)40(2)	R75UR2820(1)40(2)
2000	700	0.1000	11.0	20.0	32.0	27.5	2,000	8,000,000	200	18	11	7.56	31	75UR3100(1)30(2)	R75UR3100(1)30(2)
2000	700	0.1200	13.0	22.0	32.0	27.5	2,000	8,000,000	240	18	9	8.61	29	75UR3120(1)30(2)	R75UR3120(1)30(2)
2000	700	0.1500	13.0	25.0	32.0	27.5	2,000	8,000,000	300	18	7	9.85	28	75UR3150(1)40(2)	R75UR3150(1)40(2)
2000	700	0.1800	13.0	25.0	32.0	27.5	2,000	8,000,000	360	18	6	10.79	28	75UR3180(1)40(2)	R75UR3180(1)40(2)
2000	700	0.2200	14.0	28.0	32.0	27.5	2,000	8,000,000	440	18	5	12.30	26	75UR3220(1)40(2)	R75UR3220(1)40(2)
2000	700	0.2700	18.0	33.0	32.0	27.5	2,000	8,000,000	540	18	10	9.33	23	75UR3270(1)30(2)	R75UR3270(1)30(2)
2000	700	0.3300	18.0	33.0	32.0	27.5	2,000	8,000,000	660	18	8	10.31	23	75UR3330(1)40(2)	R75UR3330(1)40(2)
2000	700	0.3900	22.0	37.0	32.0	27.5	2,000	8,000,000	780	18	8	10.86	21	75UR3390(1)30(2)	R75UR3390(1)30(2)
2000	700	0.4700	22.0	37.0	32.0	27.5	2,000	8,000,000	940	18	7	11.93	21	75UR3470(1)40(2)	R75UR3470(1)40(2)
2000	700	0.1500	11.0	22.0	41.5	37.5	700	2,800,000	105	20	7	9.97	27	75UW3150(1)30(2)	R75UW3150(1)30(2)
2000	700	0.1800	13.0	24.0	41.5	37.5	700	2,800,000	126	20	6	11.31	25	75UW3180(1)30(2)	R75UW3180(1)30(2)
2000	700	0.2200	13.0	24.0	41.5	37.5	700	2,800,000	154	20	5	12.50	25	75UW3220(1)30(2)	R75UW3220(1)30(2)
2000	700	0.2700	16.0	28.5	41.5	37.5	700	2,800,000	189	20	10	9.41	23	75UW3270(1)30(2)	R75UW3270(1)30(2)
2000	700	0.3300	16.0	28.5	41.5	37.5	700	2,800,000	231	20	8	10.40	23	75UW3330(1)30(2)	R75UW3330(1)30(2)
2000	700	0.3900	19.0	32.0	41.5	37.5	700	2,800,000	273	20	8	10.89	21	75UW3390(1)30(2)	R75UW3390(1)30(2)
2000	700	0.4700	19.0	32.0	41.5	37.5	700	2,800,000	329	20	7	11.95	21	75UW3470(1)30(2)	R75UW3470(1)30(2)
2000	700	0.5600	20.0	40.0	41.5	37.5	700	2,800,000	392	20	6	13.70	19	75UW3560(1)40(2)	R75UW3560(1)40(2)
2000	700	0.6800	20.0	40.0	41.5	37.5	700	2,800,000	476	20	5	15.09	19	75UW3680(1)30(2)	R75UW3680(1)30(2)
2000	700	0.8200	24.0	44.0	41.5	37.5	700	2,800,000	574	20	4	17.29	17	75UW3820(1)40(2)	R75UW3820(1)40(2)
2000	700	1.0000	24.0	44.0	41.5	37.5	700	2,800,000	700	20	3	19.10	17	75UW4100(1)30(2)	R75UW4100(1)30(2)
VDC	VAC	Cap Value	W	H	L	Lead Spacing (p)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	nH / Lead Length 2x 4 mm	mΩ / at 100 kHz	A_{rms} / at 100 kHz, 85°C	(°C/W)	KEMET Internal Part Number	Customer Part Number
			Dimensions						I_{pkr}	ESL	ESR	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C on the box surface > $T_{BOX} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Soldering Process

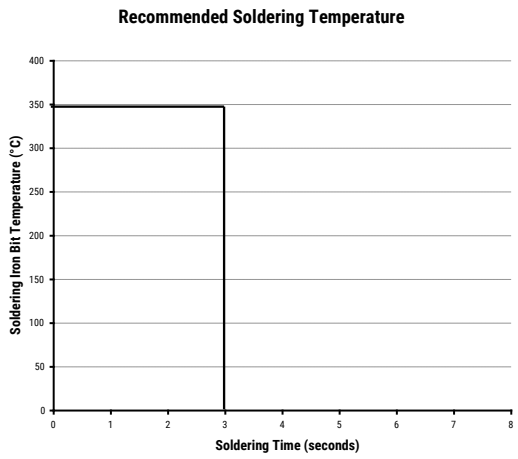
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as a primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 – 221°C for the new alloys. As a result, the heat stress to the components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Polypropylene capacitors are especially sensitive to heat (the melting point of polypropylene is 160 – 170°C). Wave soldering can be destructive, especially for mechanically small polypropylene capacitors (with lead spacing of 5 mm to 15 mm), and great care has to be taken during soldering. The recommended solder profiles from KEMET should be used. Please consult KEMET with any questions. In general, the wave soldering curve from IEC Publication 61760–1 Edition 2 serves as a solid guideline for successful soldering. Please see Figure 1.

Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above recommended limits may result in degradation or permanent damage to the capacitors.

Do not place the polypropylene capacitor through an adhesive curing oven to cure resin for surface mount components. Insert through-hole parts after the curing of surface mount parts. Consult KEMET to discuss the actual temperature profile in the oven, if through-hole components must pass through the adhesive curing process. A maximum two soldering cycles is recommended. Please allow time for the capacitor surface temperature to return to a normal temperature before the second soldering cycle.

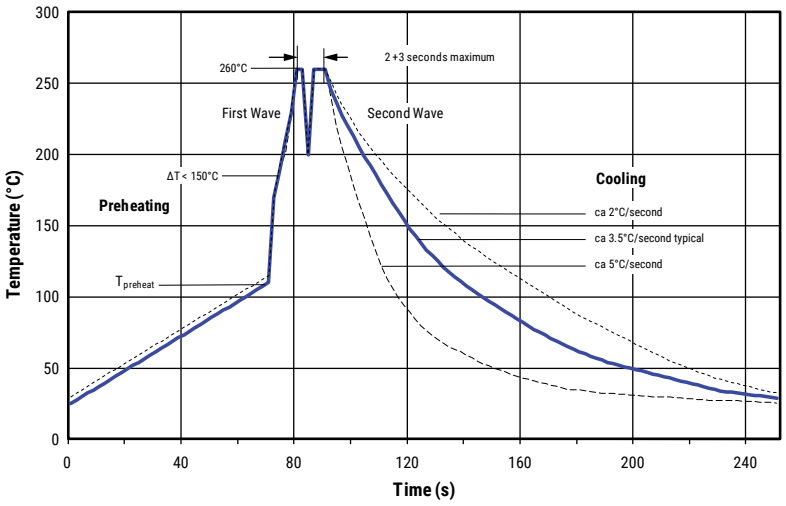
Manual Soldering Recommendations

The following is recommended for manual soldering with a soldering iron.



The soldering iron tip temperature should be set at 350°C (+10°C maximum) with the soldering duration not to exceed more than 3 seconds.

Wave Soldering Recommendations



Soldering Process cont.

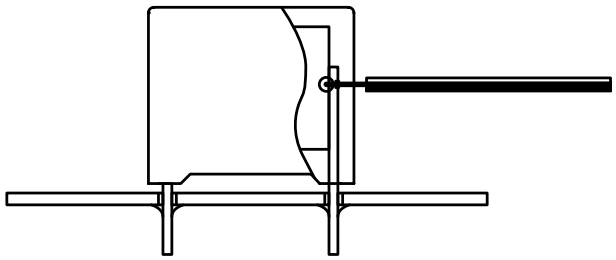
Wave Soldering Recommendations cont.

1. The table indicates the maximum set-up temperature of the soldering process Figure 1.

Dielectric Film Material	Maximum Preheat Temperature		Maximum Peak Soldering Temperature	
	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm
Polyester	130°C	130°C	270°C	270°C
Polypropylene	110°C	130°C	260°C	270°C
Paper	130°C	140°C	270°C	270°C
Polyphenylene Sulphide	150°C	160°C	270°C	270°C

2. The maximum temperature measured inside the capacitor:
   Set the temperature so that inside the element the maximum temperature is below the limit:

Dielectric Film Material	Maximum temperature measured inside the element
Polyester	160°C
Polypropylene	110°C
Paper	160°C
Polyphenylene Sulphide	160°C



Temperature monitored inside the capacitor.

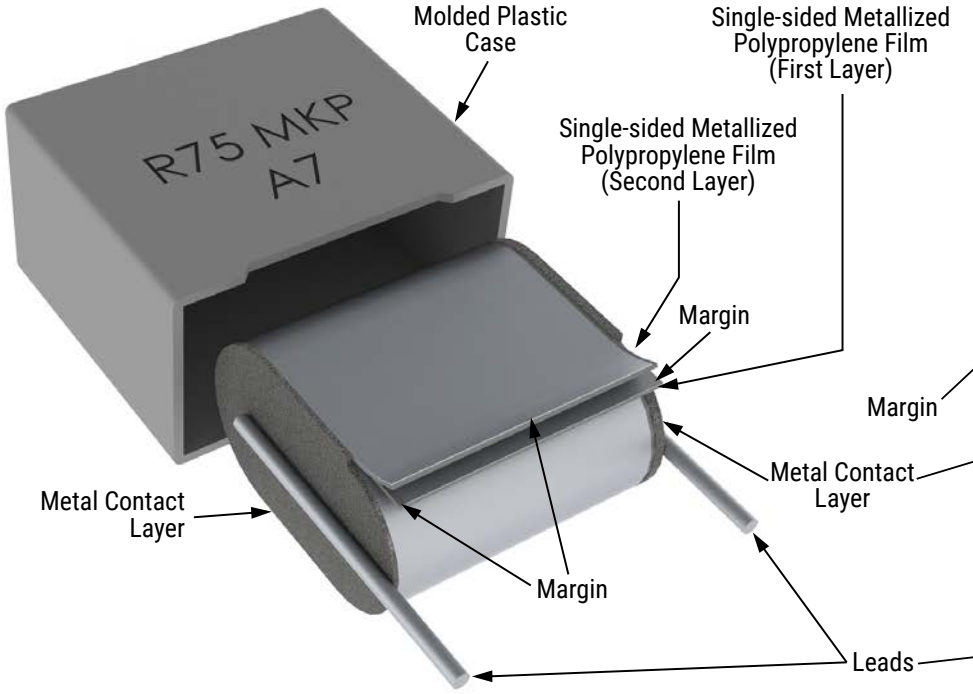
Selective Soldering Recommendations

Selective dip soldering is a variation of reflow soldering. In this method, the printed circuit board with through-hole components to be soldered is preheated and transported over the solder bath as in normal flow soldering without touching the solder. When the board is over the bath, it is stopped and pre-designed solder pots are lifted from the bath with molten solder only at the places of the selected components, and pressed against the lower surface of the board to solder the components.

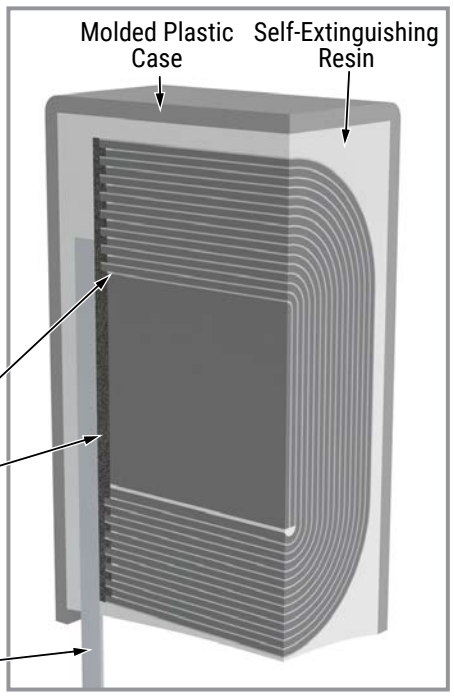
The temperature profile for selective soldering is similar to the double wave flow soldering outlined in this document, **however, instead of two baths, there is only one bath with a time from 3 to 10 seconds.** In selective soldering, the risk of overheating is greater than in double wave flow soldering. Great care must be taken so that the parts are not overheated.

Construction

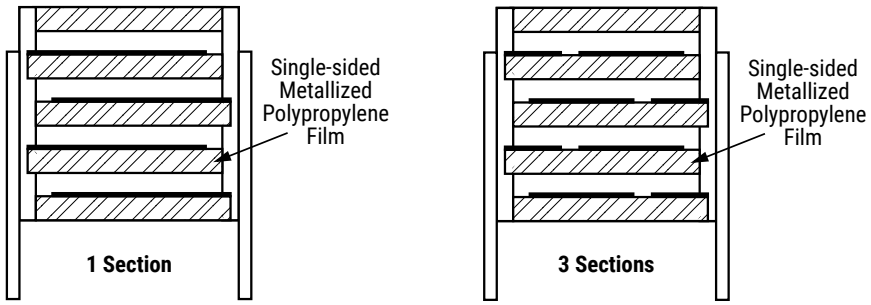
1 Section



Detailed Cross Section



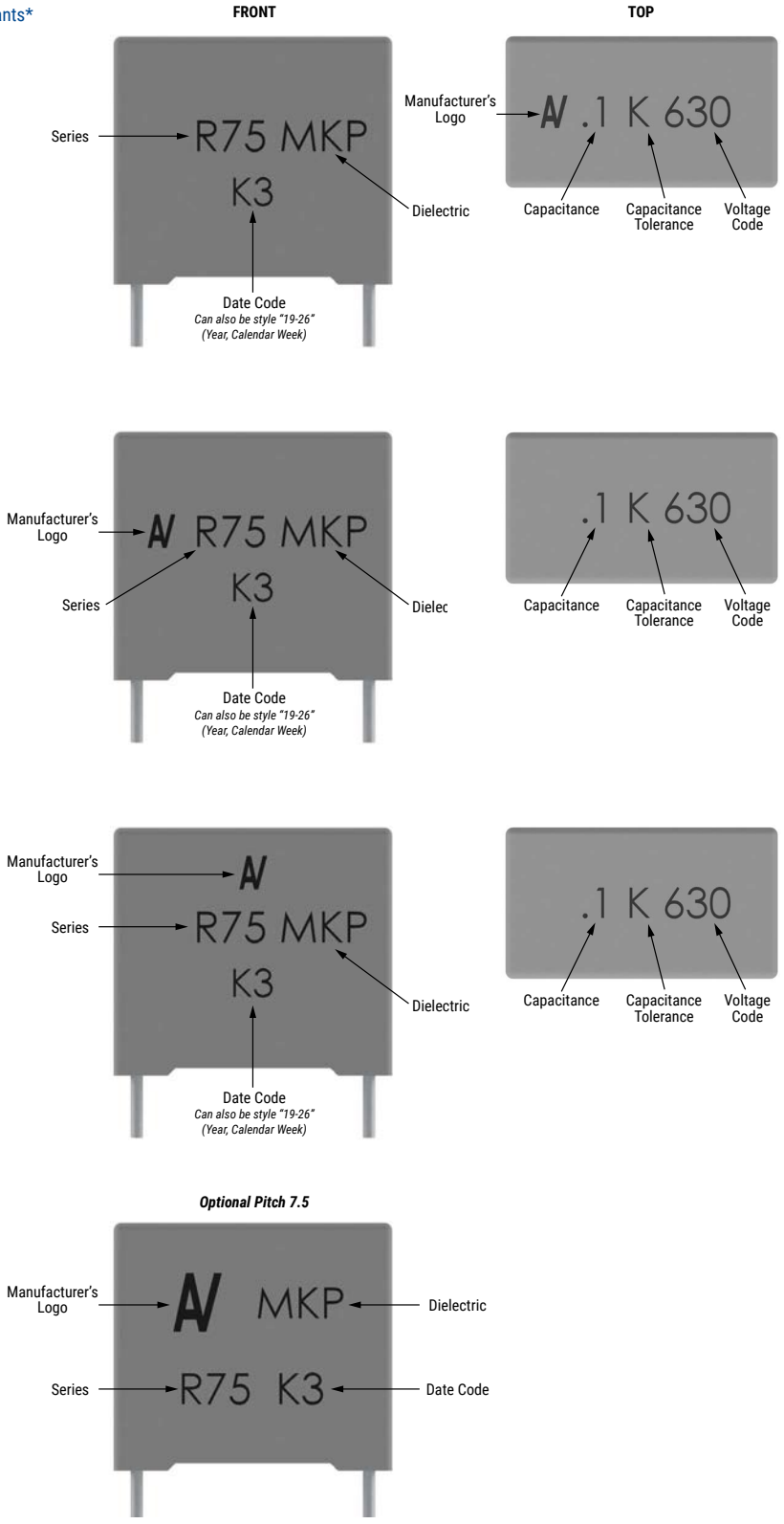
Winding Scheme



Marking

Pitch – 7.5, 10, 15 & 22.5

Marking Variants*

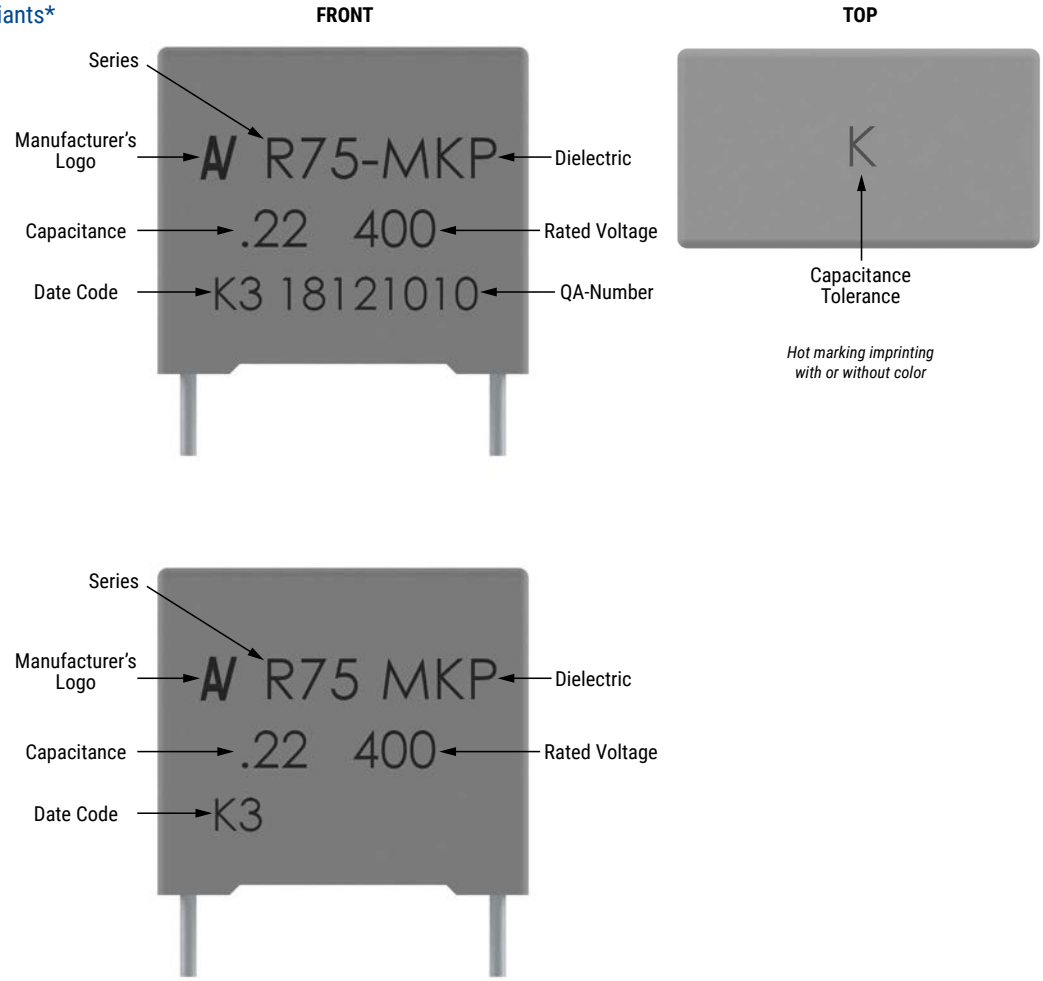


** Differences are caused by technology (clichee, laser or ink jet) and technic (production line)*

Marking cont.

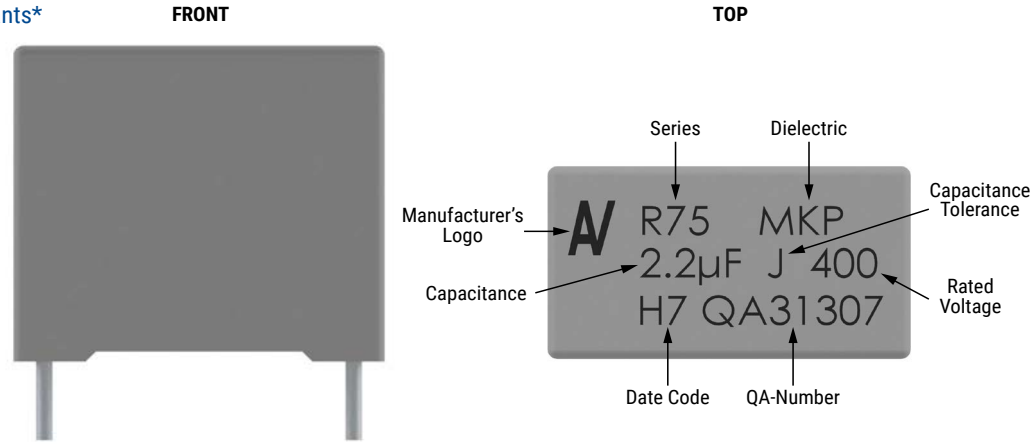
Pitch – 7.5, 10, 15, 22.5, 27.5 & 37.5

Marking Variants*



Pitch – 22.5, 27.5 & 37.5

Marking Variants*



** Differences are caused by technology (clichee, laser or ink jet) and technic (production line)*

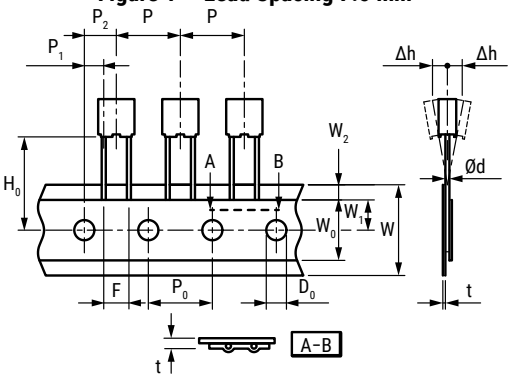
Packaging Quantities

Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads		Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo Taped
	Lead and Packaging Code			AA - JA - JB JE - JH	Z3[1] - JM[2]	40 - 50	GY - CK[1]	CK	DQ
7.5	3.0	8.0	10.0	1,500	1,750	-	2,100	-	2,800
	4.0	9.0	10.0	2,000	1,500	-	1,500	-	2,100
	5.0	10.5	10.0	1,500	1,000	-	1,200	-	1,600
	6.0	12.0	10.5	1,000	800	-	1,000	-	1,350
10	4.0	9.0	13.0	2,000	2,200	1,800	750	1,500	1,000
	5.0	11.0	13.0	1,300	2,000	1,500	600	1,250	800
	6.0	12.0	13.0	1,000	1,800	1,200	500	1,000	680
15	4.0	10.0	18.0	2,500	1,500	1,500	750	1,500	1,000
	5.0	11.0	18.0	2,000	1,250	1,000	600	1,250	800
	6.0	12.0	18.0	1,750	1,000	900	500	1,000	680
	7.5	13.5	18.0	1,000	800	700	350	800	500
	8.5	14.5	18.0	1,000	650	500	300	700	440
	9.0	12.5	18.0	1,000	700	520	270	650	410
	10.0	16.0	18.0	750	550	500	270	600	380
	11.0	19.0	18.0	450	400	350	270	500	340
	13.0	12.0	18.0	750	520	490	200	480	280
22.5	6.0	15.0	26.5	805	450	500	300	700	464
	7.0	16.0	26.5	700	450	500	250	550	380
	8.5	17.0	26.5	468	350	300	250	450	280
	10.0	18.5	26.5	396	350	300	160	350	235
	11.0	20.0	26.5	360	200	250	190	350	217
	13.0	22.0	26.5	300	150	200	130	300	-
27.5	9.0	17.0	32.0	816	-	408	230	450	-
	11.0	20.0	32.0	560	-	336	190	350	-
	13.0	12.0	32.0	672	-	288	-	-	-
	13.0	22.0	32.0	480	-	288	150	300	-
	13.0	25.0	32.0	480	-	288	-	-	-
	14.0	28.0	32.0	352	-	176	-	-	-
	18.0	33.0	32.0	256	-	128	-	-	-
	22.0	37.0	32.0	168	-	112	-	-	-
	24.0	15.0	32.0	336	-	144	-	-	-
37.5	11.0	22.0	41.5	420	-	252	-	-	-
	13.0	24.0	41.5	360	-	216	-	-	-
	16.0	28.5	41.5	216	-	108	-	-	-
	19.0	32.0	41.5	192	-	96	-	-	-
	20.0	40.0	41.5	126	-	84	-	-	-
	24.0	15.0	41.5	252	-	108	-	-	-
	24.0	19.0	41.5	216	-	108	-	-	-
	24.0	44.0	41.5	108	-	72	-	-	-
	30.0	45.0	41.5	90	-	60	-	-	-

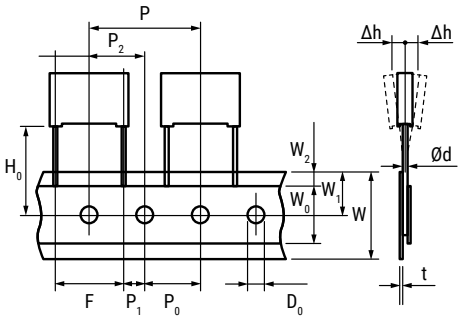
1 Only for 7.5 mm lead spacing.
2 Only for > 7.5 mm lead spacing.

Lead Taping & Packaging (IEC 60286–2)

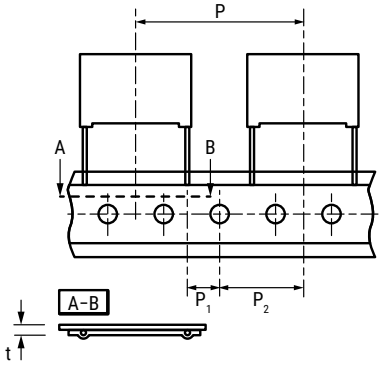
Figure 1 — Lead Spacing 7.5 mm



Lead Spacing 10 & 15 mm



Lead Spacing 22.5 & 27.5 mm



Taping Specification

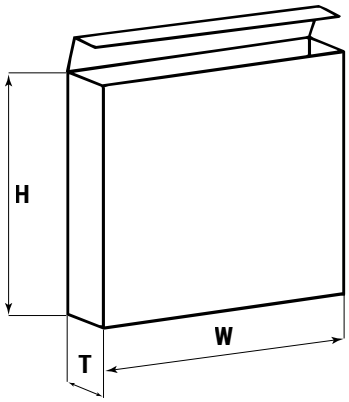
Description	Symbol	Dimensions (mm)					
		Lead Spacing					Tolerance
		7.5	10.0	15.0	22.5	27.5	
		Figure 1	Figure 2	Figure 2	Figure 3	Figure 3	
Lead wire diameter	d	0.5 – 0.6	0.6	0.6 – 0.8	0.8	0.8	±0.05
Taping lead space	P	12.7	25.4	25.4	38.1	38.1	±1
Feed hole lead space *	P_0	12.7	12.7	12.7	12.7	12.7	±0.2 **
Centering of the lead wire	P_1	2.6	7.7	5.2	7.8	5.3	±0.7
Centering of the body	P_2	6.35	12.7	12.7	19.05	19.05	±1.3
Lead spacing ***	F	7.5	10.0	15.0	22.5	27.5	+0.6/−0.1
Component alignment	Δh	0	0	0	0	0	±2
Component deviation	Δp	0	0	0	0	0	±1
Height of component from tape center	H_0****	18.5	18.5	18.5	18.5	18.5	±0.5
Carrier tape width	W	18	18	18	18	18	+1/−0.5
Hold down tape width	W_0	6	9	10	10	10	Minimum
Hole position	W_1	9	9	9	9	9	±0.5
Hold down tape position	W_2	3	3	3	3	3	Maximum
Feed hole diameter	D_0	4	4	4	4	4	±0.2
Total tape thickness	t	0.7	0.7	0.7	0.7	0.7	±0.2

** Available also 15 mm.*
*** Maximum 1 mm on 20 lead spacing.*
**** 15 mm and 10 mm taped to 7.5 mm (crimped leads) available upon request.*
***** H_0 = 16.5 mm is available upon request.*

Lead Taping & Packaging (IEC 60286–2) cont.

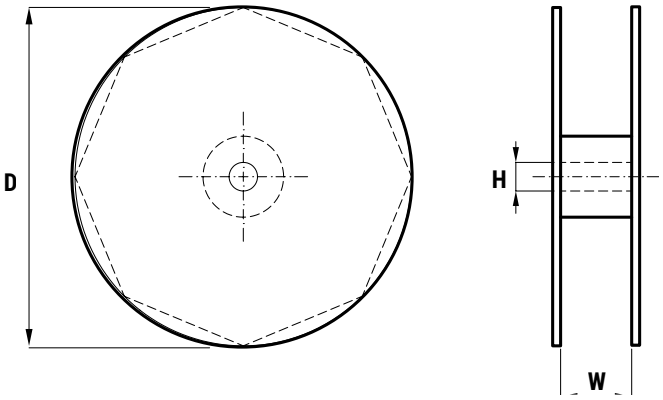
Ammo Specifications

Dimensions (mm)		
H	W	T
360	340	59



Reel Specifications

Dimensions (mm)		
D	H	W
355 500	30 25	55 Maximum



Manufacturing Date Code (IEC–60062)

Y = Year, Z = Month			
Year	Code	Month	Code
2010	A	January	1
2011	B	February	2
2012	C	March	3
2013	D	April	4
2014	E	May	5
2015	F	June	6
2016	H	July	7
2017	J	August	8
2018	K	September	9
2019	L	October	O
2020	M	November	N
2021	N	December	D
2022	P		
2023	R		
2024	S		
2025	T		
2026	U		
2027	V		
2028	W		
2029	X		
2030	A		

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