YXF SERIES

105℃ Long Life. Low impedance.



◆FEATURES

- Load Life : 105℃ 4000～10000hours.
- Low impedance at 100kHz with selected materials.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105℃
Rated Voltage Range	6.3～100V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
(tanδ) Dissipation Factor(MAX)	(20℃,120Hz)
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.

Capacitance Change	Within ±25% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	Life Time (hrs)	
	6.3～10WV	16～100WV
φD≦6.3	4000	5000
φD=8,10	6000	7000
φD≧12.5	8000	10000

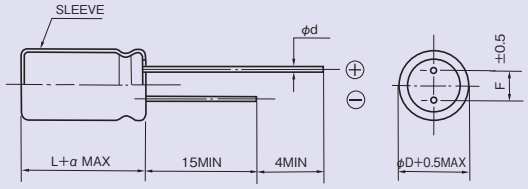
Rated Voltage (V)	6.3	10	16	25	35	50	63	100
Z(−25℃)/Z(20℃)	4	3	2	2	2	2	2	2
Z(−40℃)/Z(20℃)	8	6	4	3	3	3	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		120	1k	10k	100k≦
Coefficient	0.47～10μF	0.42	0.60	0.80	1.00
	22～33μF	0.55	0.75	0.90	1.00
	47～330μF	0.70	0.85	0.95	1.00
	470～1000μF	0.75	0.90	0.98	1.00
	2200～15000μF	0.80	0.95	1.00	1.00

◆DIMENSIONS (mm)



φD	5	6.3	8	10	12.5	16	18
φd	0.5		0.6			0.8	
F	2.0	2.5	3.5	5.0		7.5	
α	L≦16 : α=1.5 L≧20 : α=2.0						

◆PART NUMBER

□□□	YXF	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆STANDARD SIZE

Rated Voltage (V·DC)	Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	(Ω MAX) Impedance	
				20℃, 100kHz	−10℃, 100kHz
6.3 (0J)	100	5×11	150	0.90	3.6
	220	6.3×11	250	0.40	1.6
	330	6.3×11	250	0.40	1.6
	470	8×11.5	400	0.25	1.0
	1000	10×12.5	580	0.16	0.65
	2200	12.5×20	1300	0.062	0.21
	3300	12.5×20	1300	0.062	0.21
	4700	16×25	1850	0.034	0.096
	6800	16×25	1850	0.034	0.096
	10000	16×31.5	2000	0.029	0.087
	15000	18×35.5	2200	0.025	0.058
10 (1A)	100	5×11	150	0.90	3.6
	220	6.3×11	250	0.40	1.6
	330	8×11.5	400	0.25	1.0
	470	8×11.5	400	0.25	1.0
	1000	10×16	770	0.12	0.46
	2200	12.5×20	1300	0.062	0.21
	3300	12.5×25	1650	0.048	0.16
	4700	16×25	1850	0.034	0.096
	6800	16×31.5	2000	0.029	0.087
	10000	18×35.5	2200	0.025	0.058
16 (1C)	47	5×11	150	0.90	3.6
	100	6.3×11	250	0.40	1.6
	220	8×11.5	400	0.25	1.0
	330	8×11.5	400	0.25	1.0
	470	10×12.5	580	0.16	0.65
	1000	10×20	1050	0.078	0.30
	2200	12.5×25	1650	0.048	0.16
	3300	16×25	1850	0.034	0.096
	4700	16×31.5	2000	0.029	0.087
	6800	18×35.5	2200	0.025	0.058
25 (1E)	33	5×11	150	0.90	3.6
	47	5×11	150	0.90	3.6
	100	6.3×11	250	0.40	1.6
	220	8×11.5	400	0.25	1.0
	330	10×12.5	580	0.16	0.65
	470	10×16	770	0.12	0.46
	1000	12.5×20	1300	0.062	0.21
	2200	16×25	1850	0.034	0.096
	3300	16×31.5	2000	0.029	0.087
	4700	18×35.5	2200	0.025	0.058
35 (1V)	33	5×11	150	0.90	3.6
	47	6.3×11	250	0.40	1.6
	100	8×11.5	400	0.25	1.0
	220	10×12.5	580	0.16	0.65
	330	10×16	770	0.12	0.46
	470	10×20	1050	0.078	0.30
	1000	12.5×25	1650	0.048	0.16
	2200	16×31.5	2000	0.029	0.087
	3300	18×35.5	2200	0.025	0.058

Rated Voltage (V·DC)	Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	(Ω MAX) Impedance	
				20℃, 100kHz	−10℃, 100kHz
50 (1H)	0.47	5×11	17	5.5	12.0
	1	5×11	30	4.0	8.0
	2.2	5×11	43	2.5	6.0
	3.3	5×11	53	2.2	5.6
	4.7	5×11	88	1.9	5.0
	10	5×11	100	1.5	4.0
	22	5×11	150	0.90	3.6
	33	6.3×11	250	0.40	1.6
	47	6.3×11	250	0.40	1.6
	100	8×11.5	400	0.25	1.0
	220	10×16	770	0.12	0.46
	330	10×20	1050	0.078	0.30
	470	12.5×20	1300	0.062	0.21
	1000	16×25	1850	0.034	0.096
	2200	18×35.5	2200	0.025	0.058
63 (1J)	10	5×11	87	2.3	9.3
	22	6.3×11	140	1.3	5.2
	33	6.3×11	140	1.2	5.0
	47	8×11.5	210	0.63	2.8
	100	10×12.5	300	0.43	1.8
	220	10×20	520	0.21	0.84
	330	12.5×20	660	0.16	0.64
	470	12.5×25	750	0.12	0.45
	1000	16×31.5	1390	0.054	0.20
100 (2A)	0.47	5×11	15	6.0	17.0
	1	5×11	20	4.5	15.0
	2.2	5×11	30	3.0	13.0
	3.3	5×11	40	2.7	11.0
	4.7	5×11	65	2.5	10.0
	10	6.3×11	140	1.2	5.0
	22	8×11.5	160	0.63	2.8
	33	10×12.5	230	0.43	1.8
	47	10×16	290	0.31	1.5
	100	12.5×20	430	0.16	0.64
	220	16×25	900	0.073	0.27
	330	16×25	900	0.073	0.27

小型铝电解电容器
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

小型电解电容器的产品型号体系／PART NUMBER

□□□	□□□□	□□□□□	□	□□□	□□	D×L
额定电压 Rated Voltage	系列名称 Series	静电容量 Capacitance	静电容量允许差 Capacitance Tolerance	副记号 Option	引线加工记号 Lead Forming	铝壳尺寸 Case Size

Rated Voltage (V)	Code
6.3	6.3
10	10
25	25
100	100

Cap. (μF)	Code
0.1	0R1
0.47	0R47
1	1
10	10
1000	1000

Tolerance	Code
±20%	M

EFC
etc

TA, KC,
CA etc

请参照第20、21、24页
Shown in P20, 21, 24

5×11
10×12.5
12.5×40

在订货时，请注明额定电压、系列名称、静电容量、引线加工、铝壳尺寸的信息。
Please indicate the above information, when you inquire.

例）: Example

・长引线品 Long lead type	50	PX	2R2	M	EFC		5×11
・编带品 Taping type	35	ZLJ	220	M		TA	8×16

◆副记号／OPTION

	记号 Code
PET套管 PET Sleeve	EFC
PVC套管 PVC Sleeve	无 Blank

※YXJ、ZLK、ZLJ、ZT、BXF、RX30和AX系列没有副记号，均为PET套管。
YXJ, ZLK, ZLJ, ZT, BXF, RX30, AX series are all pet sleeve without “EFC” code.

贴片型铝电解电容器的产品型号体系／PART NUMBER

□□□	□□□□	□□□□□	□	□□□	D×L
额定电压 Rated Voltage	系列名称 Series	静电容量 Capacitance	静电容量允许差 Capacitance Tolerance	副记号 Option	铝壳尺寸 Case Size

Rated Voltage (V)	Code
6.3	6.3
10	10
25	25
100	100

Cap. (μF)	Code
4.7	4R7
220	220
3300	3300

Tolerance	Code
±20%	M

4×6.1
8×10.5
16×21.5

在订货时，请注明额定电压、系列名称、静电容量、铝壳尺寸的信息。
Please indicate the above information, when you inquire.

例）: Example

35	TZV	330	M		10×10.5

小型铝电解电容器
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

◆编带规格/TAPING SPECIFICATIONS

◆纵向引线形 (04形) 编带形状尺寸图/DIMENSIONS

Fig.1

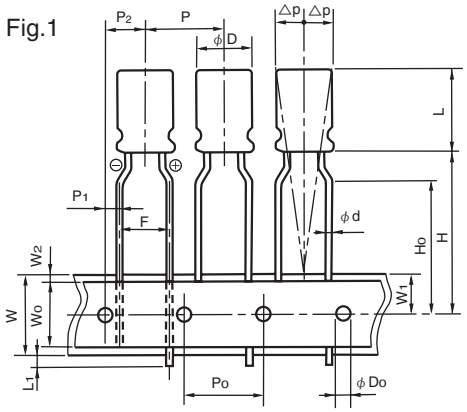
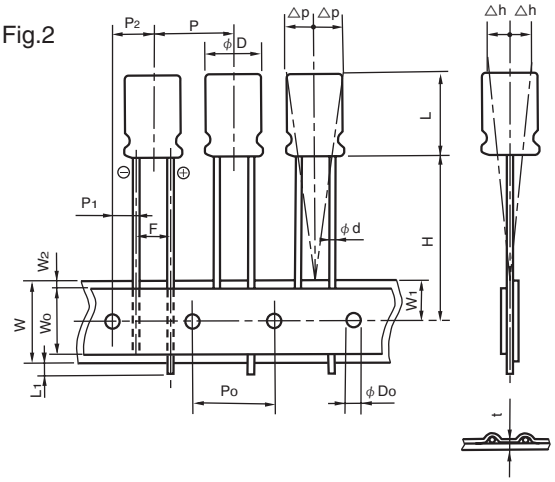


Fig.2

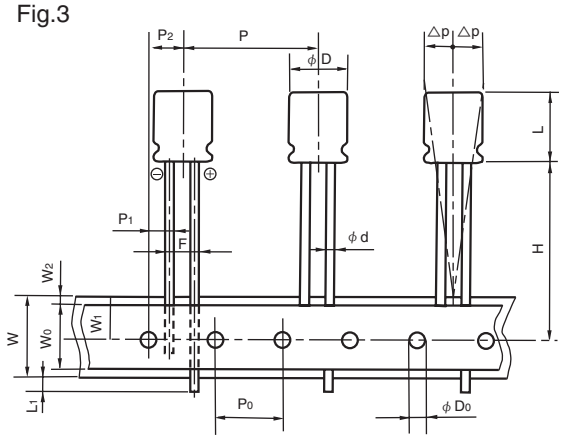


◆规格表/SPECIFICATION TABLE

(mm)

项　目 Items	记号 Code	5mm Height		7mm or 7.5mm Height				允许差 Tolerance
		φ4～φ8		φ4～φ6.3	φ4～φ6.3	φ8		
引线加工记号 Taping code		T5	TZ	T5	TZ	TA	T7	
形状尺寸图 Applicable Fig. No.		Fig.2	Fig.1	Fig.2	Fig.1	Fig.1	Fig.2	
引线直径 Dia. of lead	φd	0.45		0.45				±0.05
主体高度 Height of body	L	6.5		8.5				MAX
主体间距 Distance from center to center of next body	P	12.7		12.7				±1.0
穿孔间距 Distance from center to center of next driving hole	P_0	12.7		12.7				±0.2
穿孔与引线间距 Distance between center of driving hole and lead	P_1	5.1	3.85	5.1	3.85		4.6	±0.5
穿孔与主体间距 Distance between center of driving hole and body	P_2	6.35		6.35				±1.0
引线间距 Pitch of lead	F	2.5	5.0	2.5	5.0		3.5	+0.8 −0.2
衬纸宽度 Width of mounting tape	W	18.0		18.0				±0.3
胶带宽度 Width of adhesive tape	W_0	5.0		5.0				MIN
穿孔与衬纸间距 Distance between center of driving hole and mounting tape edge	W_1	9.0		9.0				±0.5
胶带与衬纸间距 Max. allowable distance between mounting and adhesive tape edges	W_2	1.5		1.5				MAX
主体下方位置 Distance between center of driving hole and bottom of body	H	17.5		17.5		20.0		±0.75
引线弯曲高度 Distance between center of driving hole and clinch part of lead	H_0	—	16.0	—	16.0		—	±0.5
引线头 End of lead	L_1	0.5		0.5				MAX
穿孔直径 Dia. of driving hole	φD_0	4.0		4.0				±0.2
主体倾斜度 Off alignment of body top	△h	1.0		1.0				MAX
主体倾斜度 Off alignment of body top	△p	1.0		1.0				MAX
编带总厚度 Sum of thickness for mounting and adhesive tape without lead dia	t	0.6		0.6				±0.3
包装数量（个） Quantity (pcs)		2000 (φ8:1000)						

Fig.3



◆规格表／SPECIFICATION TABLE

(mm)

项　目 Items	记号 Code	9mm or more Height								※ 允许差 Tolerance
		φ5，φ6.3		φ8		φ10	φ12.5	φ16	φ18	
引线加工记号 Taping code		T1	TA	TA	T7	T8	G4	GC		
形状尺寸图 Applicable Fig. No.		Fig.2	Fig.1	Fig.1	Fig.2	Fig.2	Fig.2	Fig.3		
引线直径 Dia. of lead	φd	0.5		0.6				0.8		±0.05
主体高度 Height of body	L	13.0		22.0		30.0	42.0			MAX
主体间距 Distance from center to center of next body	P	12.7					15.0	30.0		±1.0
穿孔间距 Distance from center to center of next driving hole	P0	12.7					15.0	15.0±0.3		±0.2
穿孔与引线间距 Distance between center of driving hole and lead	P1	5.1	3.85		4.6	3.85	5.0	3.75		±0.5
穿孔与主体间距 Distance between center of driving hole and body	P2	6.35					7.5			±1.0
引线间距 Pitch of lead	F	2.5	5.0		3.5	5.0±0.8		7.5±0.8		+0.8 −0.2
衬纸宽度 Width of mounting tape	W	18.0								±0.3
胶带宽度 Width of adhesive tape	W0	5.0								MIN
穿孔与衬纸间距 Distance between center of driving hole and mounting tape edge	W1	9.0								±0.5
胶带与衬纸间距 Max. allowable distance between mounting and adhesive tape edges	W2	1.5								MAX
主体下方位置 Distance between center of driving hole and bottom of body	H	18.5		20.0		$18.5^{+0.75}_{-0.5}$				±0.75
引线弯曲高度 Distance between center of driving hole and clinch part of lead	H0	—	16.0		—	—				±0.5
引线头 End of lead	L1	0.5								MAX
穿孔直径 Dia. of driving hole	φD0	4.0								±0.2
主体倾斜度 Off alignment of body top	△h	1.0								MAX
主体倾斜度 Off alignment of body top	△p	1.0								MAX
编带总厚度 Sum of thickness for mounting and adhesive tape without lead dia	t	0.6								±0.3
包装数量（个） Quantity (pcs)		2000		1000		500		250		

※容许差有特别规定时，特别规定优先。
※For the case that tolerance is specified individually,the value shall have the priority.

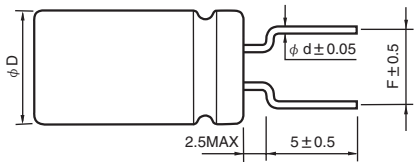
小型铝电解电容器
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

◆引线加工规格／LEAD CUTTING FORMING SPECIFICATIONS

为了使产品在印刷电路板上安装方便，我公司对产品引线有以下加工类型：引线成型，引线切脚，基板自立型特殊加工（爪式引线成型）。
Rubycon provides lead-formed and lead-cut products to facilitate mounting on printed circuit boards, as well as products with leads specially processed (kink formed) for self supporting insertions to printed circuit boards.

• 引线成型
Lead forming

（φ5～φ8）
Lead forming code : FA

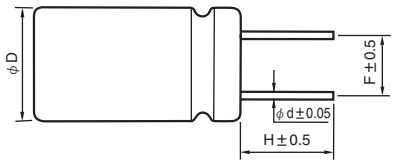


(mm)

φD	5	6.3	8
φd	0.5		0.6
F	5.0		

• 引线切脚
Lead cutting

（φ5～φ18）
Lead cutting code : CA
CC
CE

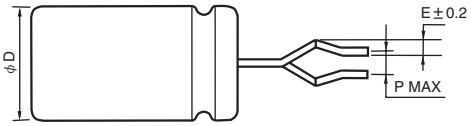


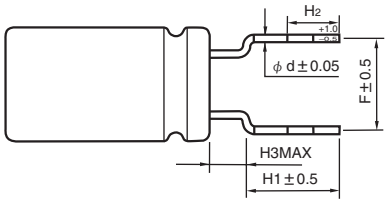
(mm)

φD	5	6.3	8	10	12.5	14.5	16	18
H	5.0 ····· (CA) 4.0 ····· (CC) 3.5 ····· (CE)							
φd	0.5		0.6			0.8		
F	2.0	2.5	3.5	5.0		7.5		

• 爪式引线成型
Kinked lead forming

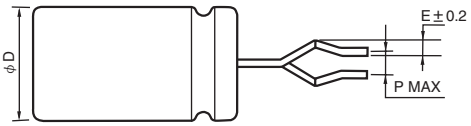
（φ5～φ8）
Kinked lead forming code : KC

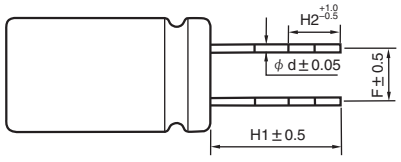




• 爪式引线切脚
Kinked lead cutting

（φ10～φ18）
Kinked lead cutting code : KC

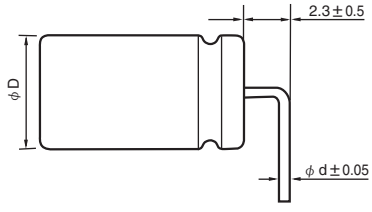


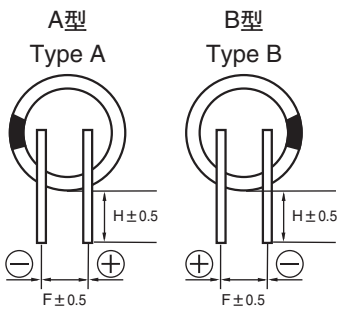


(mm)

φD	5	6.3	8	10	12.5	14.5	16	18
H1	4.5							
H2	2.8							
H3	2.5				——			
F	5.0					7.5		
P	1.0							
E	1.2			1.3				
φd	0.5		0.6			0.8		

• 横置对应品（φ10～φ18）／Low profile with horizontal mounting





(mm)

φD	10, 12.5				14.5, 16, 18			
Code	RI	RK	RX	SG	RI	RK	RX	SG
φd	0.6				0.8			
F	5.0				7.5			
H	4.0		3.5		4.0		3.5	
Type	A	B	A	B	A	B	A	B

包装规格／PACKAGING SPECIFICATION

◆引线端子型／LEAD WIRE TYPE

产品尺寸 SIZE		长引线品 LONG LEAD				引线加工品 LEAD FORMING				编带品 TAPING	
		包装单位 PACKAGE QUANTITY		标准外箱包装单位 STANDARD SHIPPING CARTON QUANTITY		包装单位 PACKAGE QUANTITY		标准外箱包装单位 STANDARD SHIPPING CARTON QUANTITY		包装单位 PACKAGE QUANTITY	标准外箱包装单位 STANDARD SHIPPING CARTON QUANTITY
		散装 BULK PACKAGE	盒装 ALIGNED PACKAGE	散装 BULK PACKAGE	盒装 ALIGNED PACKAGE	散装 BULK PACKAGE	盒装 ALIGNED PACKAGE	散装 BULK PACKAGE	盒装 ALIGNED PACKAGE		
φ4	4×5	5,000	-	50,000	-	5,000	-	50,000	-	2,000	20,000
	4×7	5,000	-	50,000	-	5,000	-	50,000	-	2,000	20,000
φ5	5×5	5,000	-	50,000	-	5,000	-	50,000	-	2,000	20,000
	5×7	5,000	-	50,000	-	5,000	-	50,000	-	2,000	20,000
	5×11	3,000	-	30,000	-	5,000	-	50,000	-	2,000	20,000
φ6.3	6.3×5	3,000	-	30,000	-	5,000	-	50,000	-	2,000	20,000
	6.3×7	3,000	-	30,000	-	5,000	-	50,000	-	2,000	20,000
	6.3×9	2,000	-	12,000	-	3,000	-	18,000	-	2,000	10,000
	6.3×11	2,000	-	12,000	-	3,000	-	18,000	-	2,000	10,000
	6.3×15	2,000	-	12,000	-	3,000	-	18,000	-	2,000	10,000
	6.3×25	1,000	-	6,000	-	1,000	-	6,000	-	-	-
	6.3×30	1,000	-	6,000	-	1,000	-	6,000	-	-	-
	6.3×40	1,000	-	6,000	-	1,000	-	6,000	-	-	-
	6.3×50	1,000	-	6,000	-	1,000	-	6,000	-	-	-
φ8	8×5	3,000	-	30,000	-	5,000	-	50,000	-	1,000	10,000
	8×7	3,000	-	18,000	-	5,000	-	30,000	-	1,000	10,000
	8×7.5	2,000	-	20,000	-	2,000	-	20,000	-	1,000	10,000
	8×9	2,000	-	12,000	-	2,000	-	12,000	-	1,000	10,000
	8×10.8	2,000	-	12,000	-	2,000	-	12,000	-	1,000	10,000
	8×11.5	2,000	-	12,000	-	2,000	-	12,000	-	1,000	10,000
	8×16	1,000	-	6,000	-	1,000	-	6,000	-	1,000	4,000
	8×20	1,000	-	6,000	-	1,000	-	6,000	-	1,000	4,000
	8×23	1,000	-	6,000	-	1,000	-	6,000	-	1,000	4,000
	8×25	-	500	-	2,000	-	500	-	2,000	-	-
	8×30	-	500	-	2,000	-	500	-	2,000	-	-
	8×35	-	500	-	2,000	-	500	-	2,000	-	-
	8×40	-	500	-	2,000	-	500	-	2,000	-	-
	8×45	-	500	-	2,000	-	500	-	2,000	-	-
	8×50	-	500	-	2,000	-	500	-	2,000	-	-
	8×55	-	500	-	1,500	-	500	-	2,000	-	-
	8×60	-	500	-	1,500	-	500	-	2,000	-	-
φ10	10×9	1,000	-	6,000	-	1,000	-	6,000	-	500	5,000
	10×10	1,000	-	6,000	-	1,000	-	6,000	-	500	5,000
	10×12.5	1,000	-	6,000	-	1,000	-	6,000	-	500	5,000
	10×16	1,000	-	6,000	-	1,000	-	6,000	-	500	5,000
	10×20	1,000	-	4,000	-	1,000	-	4,000	-	500	5,000
	10×23	1,000	-	4,000	-	1,000	-	4,000	-	500	5,000
	10×25	1,000	500	4,000	2,000	1,000	500	4,000	2,000	500	5,000
	10×28	1,000	500	4,000	2,000	1,000	500	4,000	2,000	500	5,000
	10×30	-	500	-	2,000	-	500	-	2,000	-	-
	10×35	-	500	-	2,000	-	500	-	2,000	-	-
	10×40	-	500	-	2,000	-	500	-	2,000	-	-
	10×45	-	500	-	2,000	-	500	-	2,000	-	-
	10×50	-	500	-	2,000	-	500	-	2,000	-	-
	10×55	-	500	-	1,500	-	500	-	2,000	-	-
	10×60	-	500	-	1,500	-	500	-	2,000	-	-
φ12.5	12.5×16	1,000	-	4,000	-	1,000	500	4,000	2,500	500	2,000
	12.5×20	1,000	500	4,000	2,500	1,000	500	4,000	2,500	500	2,000
	12.5×25	1,000	500	4,000	2,500	1,000	500	4,000	2,500	500	2,000
	12.5×30	600	500	2,400	2,000	600	500	2,400	2,000	500	2,000
	12.5×35	600	500	2,400	2,000	600	500	2,400	2,000	500	2,000
	12.5×40	600	500	2,400	2,000	600	500	2,400	2,000	500	2,000
	12.5×45	-	500	-	2,000	-	500	-	2,000	-	-
	12.5×50	-	500	-	2,000	-	500	-	2,000	-	-
	12.5×55	-	500	-	1,500	-	500	-	1,500	-	-
	12.5×60	-	500	-	1,500	-	500	-	1,500	-	-
φ14.5	14.5×20	-	500	-	1,500	-	500	-	1,500	-	-
	14.5×25	-	500	-	1,500	-	500	-	1,500	-	-
	14.5×30	-	500	-	1,500	-	500	-	1,500	-	-
	14.5×31.5	-	500	-	1,500	-	500	-	1,500	-	-
	14.5×35	-	500	-	1,500	-	500	-	1,500	-	-
	14.5×40	-	500	-	1,500	-	500	-	1,500	-	-
	14.5×45	-	500	-	1,500	-	500	-	1,500	-	-
	14.5×50	-	500	-	1,500	-	500	-	1,500	-	-
φ16	16×16	600	-	2,400	-	600	400	2,400	2,000	250	1,500
	16×20	600	200	2,400	1,000	600	400/200	2,400	2,000/1,000	250	1,500
	16×25	600	200	2,400	1,000	600	400/200	2,400	2,000/1,000	250	1,500
	16×30	-	200	-	1,000	-	200	-	1,000	250	1,500
	16×31.5	-	200	-	1,000	-	200	-	1,000	250	1,500
	16×35	-	200	-	1,000	-	200	-	1,000	250	1,000
	16×35.5	-	200	-	1,000	-	200	-	1,000	250	1,000
	16×40	-	200	-	1,000	-	200	-	1,000	250	1,000
	16×45	-	200	-	1,000	-	200	-	1,000	-	-
	16×50	-	200	-	1,000	-	200	-	1,000	-	-
φ18	18×16	500	-	2,000	-	-	200	-	1,000	250	1,500
	18×20	500	200	2,000	1,000	-	200	-	1,000	250	1,500
	18×25	500	200	2,000	1,000	-	200	-	1,000	250	1,500
	18×30	-	200	-	1,000	-	200	-	1,000	250	1,000
	18×31.5	-	200	-	1,000	-	200	-	1,000	250	1,000
	18×35	-	200	-	1,000	-	200	-	1,000	250	1,000
	18×35.5	-	200	-	1,000	-	200	-	1,000	250	1,000
	18×40	-	200	-	1,000	-	200	-	1,000	250	1,000
	18×45	-	200	-	1,000	-	200	-	1,000	-	-
	18×50	-	200	-	1,000	-	200	-	1,000	-	-

包装单位存在与上述相异的情况。
There are some differences between actual package quantity and above list.
关于散装与盒装并记的尺寸，以盒装作为出口用的标准。
For the sizes stated both bulk and aligned package, aligned package is standard for exporting carton.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Rubycon:

16TZV470M8X10.5 450BXW120MEFR18X40 50YXJ220M10X16 6.3ZLH820M8X11.5 25TZV470M10X10.5 35ZLG150MEFC8X11.5 400BXC4R7MEFC10X16 420BXW33MEFR12.5X25 420BXW56MEFR12.5X35 50TZV220M10X10.5 6.3ZL1000MEFC10X12.5 63ZLH390MEFCG412.5X20 16YXF220M8X11.5 420BXW100MEFR14.5X45 100YXF3.3M5X11 25YXM100MEFC6.3X11 35YXF2200MEFCGC16X31.5 50ZLJ470M12.5X20 63ZLJ390M12.5X20 35PK1000MEFC10X20 35YXF2200M16X31.5 10ZLJ560M8X11.5 25ZLJ390M8X16 450BXW47MEFR16X25 50ZLJ220M10X16 100ZLH220MEFC12.5X25 25PX680MEFC10X12.5 420BXW68MEFR12.5X45 16YXF4700M16X31.5 35ZLK330M10X16