Surface Mount Type

Series: **FKS** Type: **V**

High temperature Lead-Free reflow



■ Features

- Endurance: 2000 h at 105 ℃
- 1 size smaller than series FK
- Vibration-proof product is available upon request. (ϕ8 mm and larger)
- AEC-Q200 qualified*
- RoHS directive compliant

■ Specifications

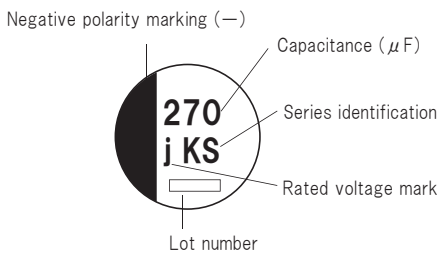
Category Temp. Range	-55 ℃ to +105 ℃							
Rated W.V. Range	6.3 V.DC to 50 V.DC							
Nominal Cap. Range	39 μF to 1800 μF							
Capacitance Tolerance	±20 % (120 Hz/+20 ℃)							
DC Leakage Current	I ≦ 0.01 CV or 3 (μA) After 2 minutes (Whichever is greater)							
tan δ	Please see the attached Standard Products list							
Characteristics at Low Temperature	W.V.(V)	6.3	10	16	25	35	50	(Impedance ratio at 120Hz)
	Z(-25 ℃)/Z(+20 ℃)	2	2	2	2	2	2	
	Z(-40 ℃)/Z(+20 ℃)	3	3	3	3	3	3	
	Z(-55 ℃)/Z(+20 ℃)	4	4	4	3	3	3	
Endurance	After applying rated working voltage for 2000 hours at +105℃±2℃ and then being stabilized at +20℃, capacitors shall meet the following limits.							
	Capacitance Change	±30 % of initial measured value						
	tan δ	≦ 200 % initial specified value						
	DC Leakage Current	≦ initial specified value						
Shelf Life	After storage for 1000 hours at +105 ℃±2 ℃ with no voltage applied and then being stabilized at +20 ℃, capacitors shall meet the limits specified in Endurance. (With voltage treatment)							
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20 ℃, capacitors shall meet the following limits.							
	Capacitance Change	±10 % of initial measured value						
	tan δ	≦ initial specified value						
	DC Leakage Current	≦ initial specified value						

■ Frequency correction factor for ripple current

Capacitance (μF)	Frequency (Hz)			
	120	1k	10k	100k to
39 to 1800	0.65	0.85	0.95	1.00

■ Marking

Example: 6.3 V.DC / 270 μF Marking color: BLACK

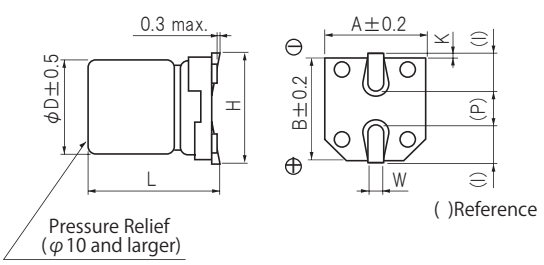


Rated Voltage Mark

j	6.3 V.DC	E	25 V.DC
A	10 V.DC	V	35 V.DC
C	16 V.DC	H	50 V.DC

■ Dimensions in mm (not to scale)

Unit : mm



Size code	D	L	A, B	H	I	W	P	K
D	6.3	5.8±0.3	6.6	7.8 max.	2.6	0.65±0.1	1.8	0.35 $^{+0.15}_{-0.20}$
D8	6.3	7.7±0.3	6.6	7.8 max.	2.6	0.65±0.1	1.8	0.35 $^{+0.15}_{-0.20}$
F	8.0	10.2±0.3	8.3	10.0 max.	3.4	0.90±0.2	3.1	0.70±0.2
G	10.0	10.2±0.3	10.3	12.0 max.	3.5	0.90±0.2	4.6	0.70±0.2

＊ This product qualify for AEC-Q200, but it has some deviations.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Standard Products

Endurance : 105 ℃ 2000 h

Rated voltage (V.DC)	Capacitance (±20 %) (μF)	Case size Dia (mm)	Case size Length (mm)	Case size Size code	Specification Ripple current (100 kHz) (+105 ℃) (mA r.m.s.)	Specification ESR (100 kHz) (+20 ℃) (Ω)	Specification tan δ (120 Hz) (+20 ℃)	Part No. (RoHS: compliant)	Reflow	Min. Packaging Q't Taping (pcs)
6.3	270	6.3	5.8	D	240	0.36	0.26	EEEFK0J271SP	(5)	1000
	470	6.3	7.7	D8	280	0.34	0.26	EEEFKJ471XSP	(5)	900
	1800	10	10.2	G	850	0.08	0.26	EEEFK0J182SP	(6)	500
10	220	6.3	5.8	D	240	0.36	0.19	EEEFK1A221SP	(5)	1000
	330	6.3	7.7	D8	280	0.34	0.19	EEEFKA331XSP	(5)	900
	820	8	10.2	F	600	0.16	0.19	EEEFK1A821SP	(6)	500
	1200	10	10.2	G	850	0.08	0.19	EEEFK1A122SP	(6)	500
16	150	6.3	5.8	D	240	0.36	0.16	EEEFK1C151SP	(5)	1000
	270	6.3	7.7	D8	280	0.34	0.16	EEEFKC271XSP	(5)	900
	560	8	10.2	F	600	0.16	0.16	EEEFK1C561SP	(6)	500
	1000	10	10.2	G	850	0.08	0.16	EEEFK1C102SP	(6)	500
25	100	6.3	5.8	D	240	0.36	0.14	EEEFK1E101SP	(5)	1000
	150	6.3	7.7	D8	280	0.34	0.14	EEEFKE151XSP	(5)	900
	180	6.3	7.7	D8	280	0.34	0.14	EEEFKE181XSP	(5)	900
	390	8	10.2	F	600	0.16	0.14	EEEFK1E391SP	(6)	500
	680	10	10.2	G	850	0.08	0.14	EEEFK1E681SP	(6)	500
35	68	6.3	5.8	D	240	0.36	0.12	EEEFK1V680SP	(5)	1000
	82	6.3	5.8	D	240	0.36	0.12	EEEFK1V820SP	(5)	1000
	120	6.3	7.7	D8	280	0.34	0.12	EEEFKV121XSP	(5)	900
	270	8	10.2	F	600	0.16	0.12	EEEFK1V271SP	(6)	500
	470	10	10.2	G	850	0.08	0.12	EEEFK1V471SP	(6)	500
50	39	6.3	5.8	D	165	0.88	0.10	EEEFK1H390SP	(5)	1000
	82	6.3	7.7	D8	195	0.68	0.10	EEEFKH820XSP	(5)	900
	180	8	10.2	F	350	0.34	0.10	EEEFK1H181SP	(6)	500
	270	10	10.2	G	670	0.18	0.10	EEEFK1H271SP	(6)	500

・Please refer to the page of "Reflow Profile" and "The Taping Dimensions".
・When requesting vibration-proof product, please put the last "V" instead to "P"

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ERJU0XJ105Y ERJ-6ENF7501V 16SVPC100M EEEFK1A102AP EEUEB1E221SB ERJB1CFR01U
ERJB1CFR018U ETQP3M1R5KVN ERJ-B1AF511U AXK5F16547YG ERA6AEB124V ERJ-P6WF1500V