

Surface Mount Type

Series: **FK** Type: **V**

FK High temperature Lead-Free reflow(suffix:A*)



■ Features

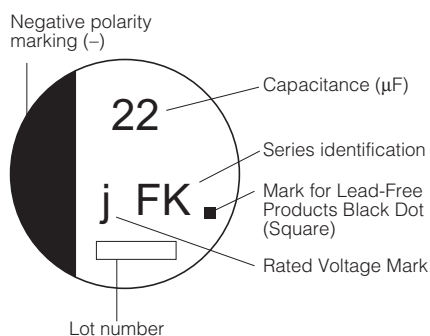
- Endurance: 2000 h at 105 °C
- Low impedance (40 % to 60 % less than FC series)
Miniaturized (30 % to 50 % less than FC series)
- Vibration-proof product is available upon request. ($\phi 8 \leq$)
- RoHS directive compliant

■ Specifications

Category Temp. Range	-55 °C to +105 °C										
Rated W.V.Range	6.3 V.DC to 35 V.DC										
Nominal Cap.Range	4.7 μ F to 1500 μ F										
Capacitance Tolerance	± 20 % (120 Hz/+20 °C)										
DC Leakage Current	$I \leq 0.01 CV$ or 3 (μ A) After 2 minutes (Whichever is greater)										
$\tan \delta$	Please see the attached High temperature lead-free reflow products list.										
Characteristics at Low Temperature	W.V. (V)	6.3	10	16	25	35					
	Z(-25 °C)/Z(+20 °C)	2	2	2	2	2					
	Z(-40 °C)/Z(+20 °C)	3	3	3	3	3					
	Z(-55 °C)/Z(+20 °C)	4	4	4	3	3					
(Impedance ratio at 120 Hz)											
Endurance	After applying rated working voltage for 2000 hours at +105 °C ± 2 °C and then being stabilized at +20 °C, Capacitors shall meet the following limits.										
	Capacitance change	± 30 % of initial measured value									
	$\tan \delta$	≤ 200 % of initial specified value									
	DC leakage current	$\leq$ initial specified value									
Shelf Life	After storage for 1000 hours at +105 °C ± 2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)										
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20 °C, capacitor shall meet the following limits.										
	Capacitance change	± 10 % of initial measured value									
	$\tan \delta$	$\leq$ initial specified value									
	DC leakage current	$\leq$ initial specified value									

■ Marking

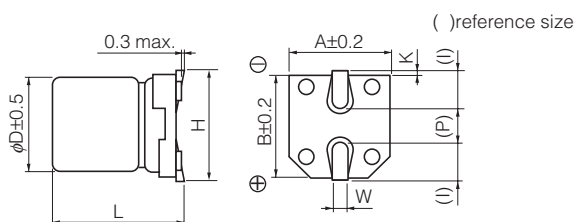
Example: 6.3 V 22 μ F
Marking color : BLACK



Rated Voltage Mark

j	6.3 V
A	10 V
C	16 V
E	25 V
V	35 V

■ Dimensions in mm (not to scale)



■ High temperature Lead-Free reflow

Endurance : 105 °C 2000 h

W.V. (V)	Cap. (±20 %) (μF)	Case size			Specification			Part No. (RoHS:compliant)	Reflow	Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	*Size Code	Ripple Current (100 kHz) (+105 °C) (mA r.m.s.)	Impedance (100 kHz) (+20 °C)	tan δ (120 Hz) (+20 °C)			Taping (pcs)
6.3	22	4	5.8	B	90	1.35	0.26	EEEFK0J220AR	(5)	2000
	47	4	5.8	(B)	90	1.35	0.26	EEEFKJ470UAR	(5)	2000
		5	5.8	C	160	0.70	0.26	EEEFK0J470AR	(5)	1000
	100	5	5.8	(C)	160	0.70	0.26	EEEFKJ101UAR	(5)	1000
		6.3	5.8	D	240	0.36	0.26	EEEFK0J101AP	(5)	1000
	220	6.3	5.8	D	240	0.36	0.26	EEEFK0J221AP	(5)	1000
	330	6.3	7.7	D8	280	0.34	0.26	EEEFKJ331XAP	(5)	900
		8	6.2	E	300	0.26	0.26	EEEFK0J331AP	(6)	1000
	470	8	10.2	F	600	0.16	0.26	EEEFK0J471AP	(6)	500
10	1000	8	10.2	F	600	0.16	0.26	EEEFK0J102AP	(6)	500
	1500	10	10.2	G	850	0.08	0.26	EEEFK0J152AP	(6)	500
	22	4	5.8	B	90	1.35	0.19	EEEFK1A220AR	(5)	2000
	33	4	5.8	(B)	90	1.35	0.19	EEEFK1A330UAR	(5)	2000
		5	5.8	C	160	0.70	0.19	EEEFK1A330AR	(5)	1000
	150	6.3	5.8	D	240	0.36	0.19	EEEFK1A151AP	(5)	1000
	220	6.3	7.7	D8	280	0.34	0.19	EEEFK1A221XAP	(5)	900
		8	6.2	E	300	0.26	0.19	EEEFK1A221AP	(6)	1000
	330	8	10.2	F	600	0.16	0.19	EEEFK1A331AP	(6)	500
16	470	8	10.2	F	600	0.16	0.19	EEEFK1A471AP	(6)	500
	680	8	10.2	F	600	0.16	0.19	EEEFK1A681AP	(6)	500
	1000	10	10.2	G	850	0.08	0.19	EEEFK1A102AP	(6)	500
	10	4	5.8	B	90	1.35	0.16	EEEFK1C100AR	(5)	2000
	22	4	5.8	(B)	90	1.35	0.16	EEEFK1C220UAR	(5)	2000
		5	5.8	C	160	0.70	0.16	EEEFK1C220AR	(5)	1000
	47	5	5.8	(C)	160	0.70	0.16	EEEFK1C470UAR	(5)	1000
		6.3	5.8	D	240	0.36	0.16	EEEFK1C470AP	(5)	1000
	68	6.3	5.							