Surface Mount Type

Series: FT Type: V

High temperature Lead-Free reflow



Features

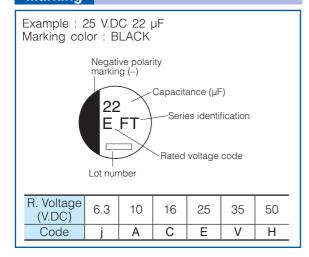
- Endurance : 105 °C 2000 h to 5000 h
- Miniaturized, Low ESR (1 size smaller than series FK)
- Vibration-proof product is available upon request. (ϕ 8 mm and larger)
- RoHS compliant

Specifications							
Category temperature range	−55 °C to +105 °C						
Rated voltage range	6.3 V.DC to 50 V.DC						
Capacitance range	10 μF to 2200 μF						
Capacitance tolerance	±20 % (120 Hz/+20 °C)						
Leakage current		I ≤ 0.01 CV (μA) After 2 minutes					
Dissipation factor (tan δ)	Please see the attached characteristics list						
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. (Suffix "G" in 6.3 V.DC: 3000 hours, 10 V.DC to 50 V.DC: 5000 hours) Capacitance change Within ±30 % of the initial value (Suffix "G" is ±35 %)						
Elidulalice	$ an \delta$	≤ 200 % of the initial limit (Suffix "G" is ≤ 300 %) Within the initial limit					
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)						
	After reflow soldering and then being stabilized at +20 °C, capacitor shall meet the following limits.						
Resistance to	Capacitance change	Within ±10 % of the initial value					
soldering heat	tan δ	Within the initial limit					
	DC leakage current	Within the initial limit					
AEC-Q200	AEC-Q200 compliant						

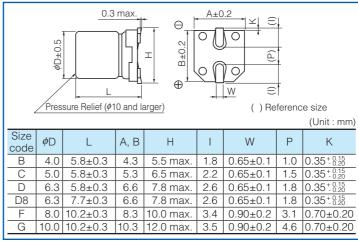
Frequency correction factor for ripple current

Capacitance		requency (Hz)	120	1 k	10 k	100 k to
10	to	470	0.65	0.85	0.95	1.00
560	to	2200	0.70	0.90	0.95	1.00

Marking



Dimensions





Aluminum Electrolytic Capacitors (SMD Type)

Characteristics list

Endurance: 105 °C 2000 h

		Lindulatice . It								
		Case size (mm)			Specification					Min. Packaging Q'ty
Rated	Cap.			a. 4	Ripple	ESR				
voltage	(±20 %)			Size*	current	(100 kHz)	tan δ	Part No.	Reflow	Taping
(V.DC)	(µF)	ϕ D	L	code	(100 kHz)	(+20 °C)	(120 Hz)			(pcs)
(- /	\I- /				(+105 °C)	(Ω)	(+20 °C)			(роз)
					(mA r.m.s.)	` ′				
	100	4	5.8	В	160	0.85	0.26	EEEFT0J101AR	(5)	2000
	220	5	5.8	С	240	0.36	0.26	EEEFT0J221AR	(5)	1000
	330	6.3	5.8	D	300	0.26	0.26	EEEFT0J331AP	(5)	1000
6.3	470	6.3	7.7	D8	600	0.16	0.26	EEEFTJ471XAP	(5)	900
	680	6.3	7.7	D8	600	0.16	0.26	EEEFTJ681XAP	(5)	900
	1500	8	10.2	F	850	0.08	0.26	EEEFT0J152AP	(6)	500
	2200	10	10.2	G	1190	0.06	0.28	EEEFT0J222AP	(6)	500
	68	4	5.8	В	160	0.85	0.19	EEEFT1A680AR	(5)	2000
	150	5	5.8	С	240	0.36	0.19	EEEFT1A151AR	(5)	1000
	220	6.3	5.8	D	300	0.26	0.19	EEEFT1A221AP	(5)	1000
10	330	6.3	7.7	D8	600	0.16	0.19	EEEFTA331XAP	(5)	900
. •	470	6.3	7.7	D8	600	0.16	0.19	EEEFTA471XAP	(5)	900
	1000	8	10.2	F	850	0.08	0.19	EEEFT1A102AP	(6)	500
	1500	10	10.2	G	1190	0.06	0.19	EEEFT1A152AP	(6)	500
	47	4	5.8	В	160	0.85	0.16	EEEFT1C470AR	(5)	2000
	68	5	5.8	С	240	0.36	0.16	EEEFT1C680AR	(5)	1000
	100	5	5.8	C	240	0.36	0.16	EEEFT1C101AR	(5)	1000
	150	6.3	5.8	D	300	0.26	0.16	EEEFT1C151AP	(5)	1000
16	220	6.3	5.8	D	300	0.26	0.16	EEEFT1C221AP	(5)	1000
	330	6.3	7.7	D8	600	0.16	0.16	EEEFTC331XAP	(5)	900
	680	8	10.2	F	850	0.08	0.16	EEEFT1C681AP	(6)	500
	820	8	10.2	F	850	0.08	0.16	EEEFT1C821UP	(6)	500
	1000	10	10.2	G	1190	0.06	0.16	EEEFT1C102AP	(6)	500
	1200	10	10.2	G	1190	0.06	0.16	EEEFT1C122UP	(6)	500
	22	4	5.8	В	160	0.85	0.14	EEEFT1E220AR	(5)	2000
	33	4	5.8	В	160	0.85	0.14	EEEFT1E330AR	(5)	2000
	47	5	5.8	С	240	0.36	0.14	EEEFT1E470AR	(5)	1000
	68	5	5.8	С	240	0.36	0.14	EEEFT1E680AR	(5)	1000
	100	6.3	5.8	D	300	0.26	0.14	EEEFT1E101AP	(5)	1000
25	150	6.3	7.7	D8	600	0.16	0.14	EEEFTE151XAP	(5)	900
	220	6.3	7.7	D8	600	0.16	0.14	EEEFTE221XAP	(5)	900
	470	8	10.2	F	850	0.08	0.14	EEEFT1E471AP	(6)	500
	560	8	10.2	F	850	0.08	0.14	EEEFT1E561UP	(6)	500
	820	10	10.2	G	1190	0.06	0.14	EEEFT1E821AP	(6)	500
	1000	10	10.2	G	1190	0.06	0.14	EEEFT1E102UP	(6)	500
	22	4	5.8	В	160	0.85	0.12	EEEFT1V220AR	(5)	2000
	33	5	5.8	С	240	0.36	0.12	EEEFT1V330AR	(5)	1000
	47	5	5.8	С	240	0.36	0.12	EEEFT1V470AR	(5)	1000
	68	6.3	5.8	D	300	0.26	0.12	EEEFT1V680AP	(5)	1000
0.5	100	6.3	5.8	D	300	0.26	0.12	EEEFT1V101AP	(5)	1000
35	150	6.3	7.7	D8	600	0.16	0.12	EEEFTV151XAP	(5)	900
	330	8	10.2	F	850	0.08	0.12	EEEFT1V331AP	(6)	500
	390	8	10.2	F	850	0.08	0.12	EEEFT1V391UP	(6)	500
	560	10	10.2	G	1190	0.06	0.12	EEEFT1V561AP	(6)	500
	680	10	10.2	G	1190	0.06	0.12	EEEFT1V681UP	(6)	500
		4	5.8	(B)	85	2.30	0.10	EEEFTH100UAR	(5)	2000
	10	5	5.8	C	165	0.88	0.10	EEEFT1H100AR	(5)	1000
50	22	5	5.8	C	165	0.88	0.10	EEEFT1H220AR	(5)	1000
	47	6.3	5.8	D	195	0.68	0.10	EEEFT1H470AP	(5)	1000
	100	6.3	7.7	D8	350	0.34	0.10	EEEFTH101XAP	(5)	900
	220	8	10.2	F	670	0.34	0.10	EEEFT1H221AP	(6)	500
	330	10	10.2	G	900	0.10	0.10	EEEFT1H331AP	(6)	500
	JJU	IU	10.2	L G	1 900	0.12	0.10	LEEFIIIIOSIAF	(0)	1 300

^{*} Size code(): Miniaturization product

If Part number exceeds 12 digits, voltage code is abbreviated as follows; 0J → J, 1A → A, 1C → C, 1E → E, 1V → V, 1H → H · 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"



Panasonic Aluminum Electrolytic Capacitors (SMD Type)

Characteristics list (Endurance 5000 h)

Endurance: 105 °C 5000 h (6.3 V.DC: 105 °C 3000 h)

		Case size (mm)			Specification					Min. Packaging Q'ty
Rated voltage (V.DC)	Cap. (±20 %) (µF)	φD	L	Size code	Ripple current (100 kHz) (+105 °C) (mA r.m.s.)		tan <i>δ</i> (120 Hz) (+20 °C)	Part No.	Reflow	Taping (pcs)
6.3	1500	8	10.2	F	850	0.08	0.26	EEEFT0J152GP	(6)	500
	2200	10	10.2	G	1190	0.06	0.28	EEEFT0J222GP	(6)	500
10	1000	8	10.2	F	850	0.08	0.19	EEEFT1A102GP	(6)	500
	1500	10	10.2	G	1190	0.06	0.19	EEEFT1A152GP	(6)	500
16	680	8	10.2	F	850	0.08	0.16	EEEFT1C681GP	(6)	500
	1000	10	10.2	G	1190	0.06	0.16	EEEFT1C102GP	(6)	500
25	470	8	10.2	F	850	0.08	0.14	EEEFT1E471GP	(6)	500
	820	10	10.2	G	1190	0.06	0.14	EEEFT1E821GP	(6)	500
35	330	8	10.2	F	850	0.08	0.12	EEEFT1V331GP	(6)	500
	560	10	10.2	G	1190	0.06	0.12	EEEFT1V561GP	(6)	500
50	220	8	10.2	F	670	0.18	0.10	EEEFT1H221GP	(6)	500
	330	10	10.2	G	900	0.12	0.10	EEEFT1H331GP	(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"

Mouser Electronics

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Panasonic:

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EEE-FT1E220AR EEE-FT1E330AR EEE-FT1E470AR EEE-FT1E680AR EEE-FT1E101AP EEE-FTE151XAP

EEE-FT221XAP EEE-FT1E471AP EEE-FT1E821AP EEE-FT1V220AR EEE-FT1V330AR EEE-FT1V470AR EEE-
FT1V680AP EEE-FT1V101AP EEE-FTV151XAP EEE-FT1V331AP EEE-FT1V561AP EEE-FTH100UAR EEE-
FT1H100AR EEE-FT1H220AR EEE-FT1H470AP EEE-FTH101XAP EEE-FT1H221AP EEE-FT1H331AP EEE-
FT0J331AP EEE-FTJ471XAP EEE-FTJ681XAP EEE-FT0J222AP EEE-FT1C680AR EEE-FT1C221AP EEE-
FT1C102AP EEE-FT1C101AR EEE-FT1A680AR EEE-FT0J221AP EEE-FT1A152AP EEE-FT1A151AR EEE-
FT1C681AP EEE-FT0J330AP EEE-FT1C470AR EEE-FT0J221AR EEE-FT0J152AP EEE-FT0J101AR EEE-
FTJ680XAP EEE-FTJ470XAP EEE-FTC331XAP EEE-FTA471XAP EEE-FT0J222GP EEE-FT1A102AP EEE-
FT1C151AP EEE-FT1V331GP EEE-FT1C681GP EEE-FT1H331GP EEE-FT0J222GP EEE-FT1A102GP EEE-
FT1C102GP EEE-FT1A152GP EEE-FT1E471GP EEE-FT1V561GP EEE-FT1E821GP EEE-FT1H221GP EEE-
FT0J152GP EEE-FT1V681UP EEE-FT1C821UP EEE-FT1C122UP EEE-FT1E102UP EEE-FT1E561UP EEE-
FT1V391UP
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