Panasonic Aluminum Electrolytic Capacitors (SMD Type)

Surface Mount Type NEW

Series: TCU Type: V

High temperature Lead-Free reflow



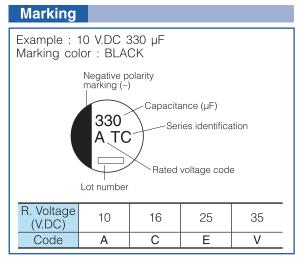
Features

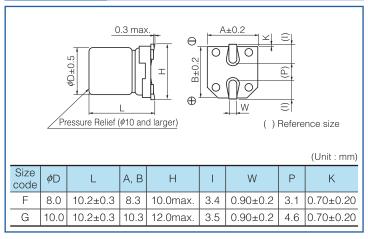
- Miniaturization (20 % to 40 % less than TP series)
- Endurance: 125 °C 3000 h
- Added ESR specification after the endurance test
- Vibration-proof product is available upon request
- RoHS compliant

Specifications							
Category temperature range	-40 °C to +125 °C						
Rated voltage range	10 V.DC to 35 V.DC						
Capacitance range	220 μF to 680 μF						
Capacitance tolerance	±20 % (120 Hz/+20 °C)						
Leakage current	l ≤ 0.01 CV (μA) After 2 minutes						
Dissipation factor (tan δ)	Please see the attached characteristics list						
	After applying rated working voltage for 3000 hours at +125 °C±2 °C and then being stabilized at +20 °C, Capacitors shall meet the following limits.						
	Capacitance change	Within ±30 % of the initial value					
	tan δ	≤300 % of the initial limit					
Endurance	DC leakage current Within the initial limit						
	EOD -#	Size code					
	ESR after endurance		F	G			
	$(\Omega/100 \text{kHz})$	Initial (+20 °C)	0.2	0.15			
	, , , , , , , , , , , , , , , , , , ,	After 2000 h (-40 °C)	9	7			
Shelf life	After storage for 1000 hours at +125 °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	After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits.						
	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							
Frequency (Hz)	120	1 k	10 k	100 k to			
Correction factor	0.65	0.85	0.95	1.00			

Dimensions







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Characteristics list

Endurance: 125 °C 3000 h

		Case size (mm)			Specification						Min. Packaging Q'ty
Rated voltage (V.DC)	Cap. (±20 %) (µF)	φD L	L	Size code	Ripple current (100 kHz) (+125 °C)	(100		tan δ (120 Hz) (+20 °C)	Part No.	Reflow	Taping (pcs)
					(mA r.m.s.)	+20 °C	-40 °C	°C			
10	330	8	10.2	F	410	0.20	3	0.30	EEETC1A331UP	(8)	500
	470	8	10.2	F	410	0.20	3	0.30	EEETC1A471UP	(8)	500
	560	8	10.2	F	410	0.20	3	0.30	EEETC1A561UP	(8)	500
	680	10	10.2	G	750	0.15	2	0.30	EEETC1A681UP	(8)	500
16	330	8	10.2	F	410	0.20	3	0.23	EEETC1C331UP	(8)	500
	390	8	10.2	F	410	0.20	3	0.23	EEETC1C391UP	(8)	500
	680	10	10.2	G	750	0.15	2	0.23	EEETC1C681UP	(8)	500
25	220	8	10.2	F	410	0.20	3	0.18	EEETC1E221UP	(8)	500
	330	8	10.2	F	410	0.20	3	0.18	EEETC1E331UP	(8)	500
	470	10	10.2	G	750	0.15	2	0.18	EEETC1E471UP	(8)	500
35	220	8	10.2	F	410	0.20	3	0.16	EEETC1V221UP	(8)	500
	330	10	10.2	G	750	0.15	2	0.16	EEETC1V331UP	(8)	500
	390	10	10.2	G	750	0.15	2	0.16	EEETC1V391UP	(8)	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"