Panasonic Aluminum Electrolytic Capacitors (SMD Type)

Surface Mount Type

Series : TQ Type : V High temperature Lead-Free reflow (suffix : A*)



Features

- 1 size smaller and same performance compare with V-TK series
- Low ESR (85 % low ESR in low temperature after endurance compare with V-TP series)
- Endurance : 125 °C 2000 h
- RoHS compliant

Recommended applications

Automotive

Specifications							
Category temperature range	−40 °C to +125 °C						
Rated voltage range	35 V.DC						
Capacitance range	47 μF to 100 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						
	After the life test with DC rated working voltage at +125 °C±2 °C for 2000 hours, the capacitors shall meet the limits specified below.Capacitance changeWithin ±30 % of the initial value						
	tan δ	≤300 % of the initial limit					
Endurance	DC leakage current Within the initial limit						
	ESR after endurance (Ω /100kHz)	Initial (+20 °C) After 2000 h (-40 °C)	Size Code D8 0.30 6				
Shelf life	After storage for 1000 hours at +125 °C \pm 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, capacitors shall meet the following limits.						
Resistance to soldering heat	Capacitance change Within ±10 % of the initial value						
	tan δ	Within the initial limit					
	DC leakage current	leakage current Within the initial limit					
AEC-Q200	AEC-Q200 compliant						

Frequency correction factor for ripple current

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Frequency (Hz)	120	1 k	10 k	100 k to
Correction factor	0.65	0.85	0.95	1.00



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.

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Characteristics list

Endurance : 125 °C 2000 h

	Case size (mm)			Specification				Min. Packaging Q'ty		
Rated voltage (V.DC)	Cap. (±20 %) (µF)	φD	L	Size code	Ripple current (100 kHz) (+125 °C) (mA r.m.s.)	ESR (100 kHz) (+20 °C) (Ω)	tan <i>δ</i> (120 Hz) (+20 °C)	Part No.	Reflow	Taping (pcs)
35	47	6.3	7.7	D8	197	0.30	0.16	EEETQV470XAP	(5)	900
- 35	100	6.3	7.7	D8	197	0.30	0.16	EEETQV101XAP	(5)	900

If Part number exceeds 12 digits, voltage code is abbreviated as follows; $1V \rightarrow V$ Please refer to the page of "Reflow Profile" and "The Taping Dimensions".