Surface Mount Type

Series: TQ Type: V

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

- 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: 2000 h at 125 °C RoHS directive compliant

■ Recommended Applications

Automotive

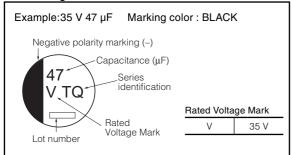
■ Specifications

Category Temp. Range	−40 °C to +125 °C					
Rated W.V.Range	35 V.DC					
Nominal Cap.Range	47 μF to 100 μF					
Capacitance Tolerance	±20 % (120 Hz/+20 °C)					
DC Leakage Current	l ≤ 0.01 CV (μA) After 2 minutes					
$ an \delta$	Please see the attached standard products list					
Endurance	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 change	±30 % of initial measured value				
	tan δ	≤ 300 % of initial specified value				
	DC leakage current	≤ initial specified value				
	ESR after Endurance		Size Code D8			
		Initial(+20 °C)	0.30			
	(Ω/100kHz)	After 2000 h(-40 °C)	6			
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 Soldering Heat	After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits.					
	Capacitance change	±10 % of initial measured value				
	$ an \delta$	≤ initial specified value				
	DC leakage current	≤ initial specified value				

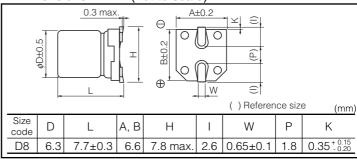
■ Frequency correction factor for ripple current

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

Marking



■ Dimensions in mm (not to scale)



■ Standard Products

■ Standard Products Endurance : 125 °C 2000 h										
		Case size		Specification					Min. Packaging Q'ty	
W.V.	Cap. (±20 %)	Dia.	Length	Size Code	Ripple Current (100 kHz) (+125 °C)	E.S.R. (100 kHz) (+20 °C)	tan δ (120 Hz) (+20 °C)	Part No. (RoHS:compliant)	Reflow	
(V)	(µF)	(mm)	(mm)		(mA r.m.s.)	$(m\Omega)$,			(pcs)
35	47	6.3	7.7	D8	197	0.30	0.16	EEETQV470XAP	(5)	900
	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→V The taping dimensions are explained on EE188 of our Catalog. Please use it as a reference guide. Reflow Profile(Fig-5) listed on EE186 of our Catalog.



