Surface Mount Type

Series: TQ Type: V

TQ 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: 2000 h at 125 °C
- AEC-Q200 qualified*
- RoHS directive compliant

■ Recommended Applications

Automotive

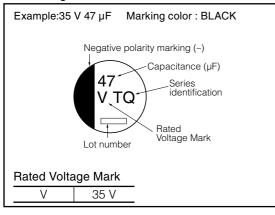
■ Specifications

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	I ≤ 0.01 CV (μA) After 2 minutes						
tan δ	Please see the attached standard products 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 change	±30 % of initial measured value					
	tan δ	≤300 % of initial specified value					
Endurance	DC leakage current	≤ initial specified value					
	ESR after Endurance (Ω/100kHz)		Size Code				
			D8				
		Initial(+20 °C)	0.30				
	,	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	ange ±10 % of initial measured value					
	tan δ	≤ initial specified value					
	DC leakage current	≤ initial specified value					

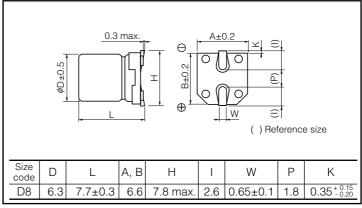
■ Frequency correction factor for ripple current

	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)



* This product qualify for AEC-Q200, but it has some deviations.





(Unit: mm)

01 Mar. 2014



Panasonic

■ Standard Products Endurance : 125 °C 2000 h

	V. Cap. (±20 %)	Case size			Specification					Min. Packaging Q'ty
W.V.		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	Taping
(V)	(µF)	(mm)	(mm)		(mA r.m.s.)	(Ω)	, ,			(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 · Please refer to the page of "Reflow Profile" and "The Taping Dimensions".