

## Surface Mount Type

# POSCAP



Series : TQC

Size : D

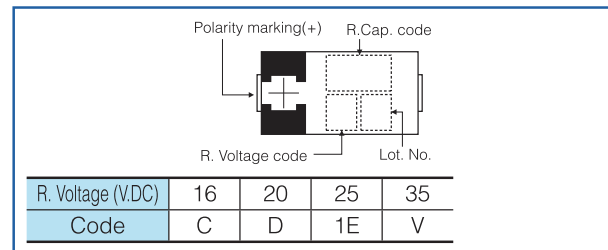
### Features

- High voltage (35 V.DC max.)
- RoHS compliance, Halogen free

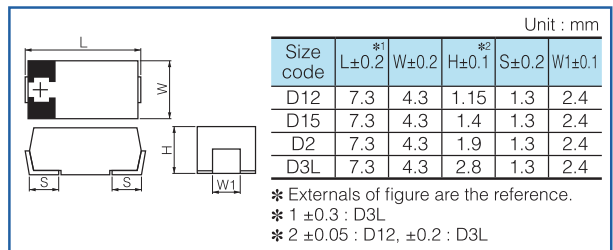
### Specifications

Size code	D12	D15	D2	D3L
Category temperature range	-55 °C to +105 °C			
Rated voltage range	16 V.DC	16 V.DC to 25 V.DC	16 V.DC to 35 V.DC	16 V.DC to 25 V.DC
Category voltage range	16 V.DC	16 V.DC to 25 V.DC	16 V.DC to 35 V.DC	16 V.DC to 25 V.DC
Rated capacitance range	33 µF	22 µF to 47 µF	10 µF to 100 µF	68 µF to 150 µF
Capacitance tolerance	±20 % (120 Hz / + 20 °C)			
Leakage current	Please see the attached characteristics list			
Dissipation factor (tan δ)	Please see the attached characteristics list			
Surge voltage (V.DC)	Rated voltage × 1.15			
Endurance	+105 °C, 2000 h, rated voltage applied			
	Capacitance change	Within ±20 % of the initial value		
	tan δ	≤ 1.5 times of the initial limit		
	DC leakage current	Within the initial limit		
Damp heat (Steady State)	+60 °C, 90 % to 95 %, 500 h, No-applied voltage			
	Capacitance change	Within +40 %, -20 % of the initial value		
	tan δ	≤ 1.5 times of the initial limit		
	DC leakage current	≤ 3 times of the initial limit		

### Marking



### Dimensions (not to scale)



### Characteristics list

Series	Rated voltage (V.DC)	Rated temp. (°C)	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (µF)	Case size (mm)			Size code	Specifications				Standard		
						L	W	H		Ripple current <sup>*1</sup> (mA r.m.s.)	ESR <sup>*2</sup> (mΩ max.)	tan δ <sup>*3</sup>	LC <sup>*4</sup> (µA)	Part number	Min. Packaging Qty (pcs)	
TQC	16	105	16.0	105	33	7.3	4.3	1.15	D12	1800	40	0.10	52.8	16TQC33MYFS	4500	
						7.3	4.3	1.9	D2	1400	70	0.10	52.8	16TQC33MYFD	3000	
						7.3	4.3	1.4	D15	1500	55	0.10	75.2	16TQC47MYFT	3000	
		47	7.3	4.3	1.9	D2	1800	40	0.10	75.2	16TQC47MW	3000				
			7.3	4.3	1.9		1450	55	0.10	75.2	16TQC47MYFD	3000				
			7.3	4.3	1.9		1500	50	0.10	108.8	16TQC68MYF	3000				
		100	7.3	4.3	1.9	D2	1800	50	0.10	160.0	16TQC100MYF	3000				
			7.3	4.3	2.8		D3L	1800	50	0.10	240.0	16TQC150MYF	2500			
			7.3	4.3	1.9			1500	70	0.15	240.0	1CTQC15173F1	3000			
		20	105	20.0	105	33	7.3	4.3	1.9	D2	1400	60	0.10	66.0	20TQC33MYFD	3000
											1450	55	0.10	94.0	20TQC47MYF	3000
											1500	55	0.10	94.0	20TQC47MYFT	3000
	100		7.3	4.3	1.9	D2	1250	100	0.15	200.0	20TQC100MD2	3000				
							7.3	4.3	2.8	D3L	1700	55	0.10	200.0	20TQC100MYF	2500
											1500	70	0.15	240.0	1CTQC15173F1	3000
	25	105	25.0	105	15	7.3	4.3	1.9	D2	1500	45	0.10	38.0	25TQC15MV	3000	
										1000	90	0.10	38.0	25TQC15MYFD	3000	
										1500	45	0.10	55.0	25TQC22MV	3000	
										1400	60	0.10	55.0	25TQC22MYFD	3000	
										1400	70	0.10	55.0	25TQC22MYFT	3000	
										1400	60	0.10	82.5	25TQC33MYF	3000	
		68	7.3	4.3	1.9	D2	1400	70	0.10	170.0	25TQC68MYF	2500				
							7.3	4.3	1.9	D2	1000	120	0.10	35.0	35TQC10M	3000
											1000	120	0.10	35.0	35TQC10MYF	3000
900							150	0.10	52.5	D2	900	150	0.10	52.5	35TQC15MYF	3000

\*1 Ripple current (100 kHz/ +105 °C), \*2 ESR (100 kHz/+20 °C) \*3 tan δ (120 Hz/+20 °C) \*4 After 5 minutes

◆ Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".