Surface Mount Type

POSCAP



Series: TQC

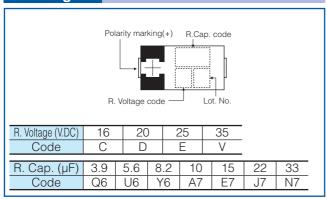
Size: B

Features

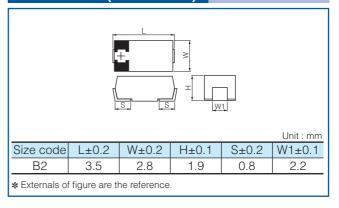
- High voltage (35 V.DC max.)
- RoHS compliance, Halogen free

Specifications									
Size code		B2							
Category temperature range	−55 °C to +105 °C								
Rated voltage range		16 V.DC to 35 V.DC							
Category voltage range	16 V.DC to 35 V.DC								
Rated capacitance range	3.9 μF to 33 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								
	+105 °C, 2000 h (16TQC33MYFB: 1000 h), rated voltage applied								
Endurance	Capacitance change	Within ±20 % of the initial value							
Endurance	tan δ	≤ 1.5 times of the initial limit							
	DC leakage current	Within the initial limit							
	+60 °C, 90 % to 95 %, 500 h, No-applied voltage								
Damp heat	Capacitance change	Within +40 %, -20 % of the initial value							
(Steady State)	$\tan \delta$ \leq 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 temp.	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (µF)	Case size (mm)					Specifi	cations	Standard		
	Rated voltage (V.DC)					L	W	Н	Size code	Ripple *1 current (mAr.m.s.)	FOD *2	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)
TQC	16	105	16.0	105	10	3.5	2.8	1.9	B2 -	800	100	0.10	48.0	16TQC10M	2000
		105	16.0	105	15	3.5	2.8	1.9		1000	90	0.10	72.0	16TQC15M	2000
		105	16.0	105	33	3.5	2.8	1.9		1000	90	0.10	158.4	16TQC33MYFB	2000
	20	105	20.0	105	8.2	3.5	2.8	1.9		800	100	0.10	49.2	20TQC8R2M	2000
		105	20.0	105	22	3.5	2.8	1.9		1100	90	0.10	132.0	20TQC22MYFB	2000
	25	105	25.0	105	5.6	3.5	2.8	1.9		800	100	0.10	42.0	25TQC5R6M	2000
		105	25.0	105	15	3.5	2.8	1.9		900	100	0.10	112.5	25TQC15MYFB	2000
	35	105	35.0	105	3.9	3.5	2.8	1.9		500	400	0.10	40.9	35TQC3R9MYF	2000

^{*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 catarog for "Reflow conditions" and "Taping specifications".

Surface Mount Type

POSCAP

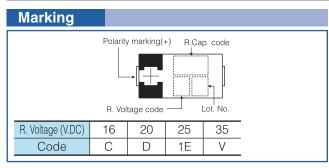


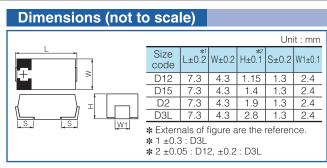
Series : TQC Size: D

Features

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

Specifications										
Size code	D12	D15	D2	D3L						
Category temperature range		−55 °C to								
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									
	+105 °C, 2000 h, rated voltage applied									
Endurance	Capacitance change Within ±20 % of the initial value									
Liturance		≤ 1.5 times of the initial lir	mit							
		Within the initial limit								
	+60 °C, 90 % to 95 %, 500 h, No-applied voltage									
Damp heat	Capacitance change Within +40 %, -20 % of the initial value									
(Steady State)		tan δ \leq 1.5 times of the initial limit								
	DC leakage current	≤ 3 times of the initial limi	t							





Characteristics list															
	Rated	Rated	Category voltage (V.DC)	Category temp.	Rated capacitance (µF)	Case size (mm)				Specifications				Standard	
Series	voltage (V.DC)	temp.				L	W	Н	Size code	Ripple *1 current (mAr.m.s.)	ESR *2 (m Ω max.)	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)
		105	16.0	105	33	7.3	4.3	1.15	D12	1800	40	0.10	52.8	16TQC33MYFS	4500
		105	16.0	105	00	7.3	4.3	1.9	D2	1400	70	0.10	52.8	16TQC33MYFD	3000
		105	16.0	105]	7.3	4.3	1.4	D15	1500	55	0.10	75.2	16TQC47MYFT	3000
	16	105	16.0	105	47	7.3	4.3	1.9	D2	1800	40	0.10	75.2	16TQC47MW	3000
		105	16.0	105		7.3	4.3	1.9		1450	55	0.10	75.2	16TQC47MYFD	3000
		105	16.0	105	68	7.3	4.3	1.9		1500	50	0.10	108.8	16TQC68MYF	3000
		105	16.0	105	100	7.3	4.3	1.9		1800	50	0.10	160.0	16TQC100MYF	3000
		105	16.0	105	150	7.3	4.3	2.8	D3L	1800	50	0.10	240.0	16TQC150MYF	2500
ļ	NE	7 105	16.0	105	150	7.3	4.3	1.9		1500	70	0.15	240.0	1CTQC15173F1	3000
	20 N E	105	20.0	105	33	7.3	4.3	1.9	D2	1400	60	0.10	66.0	20TQC33MYFD	3000
		105	20.0	105	47 - 100	7.3	4.3	1.9		1450	55	0.10	94.0	20TQC47MYF	3000
TQC		105	20.0	105		7.3	4.3	1.4	D15	1500	55	0.10	94.0	20TQC47MYFT	3000
100		‴ 105	20.0	105		7.3	4.3	1.9	D2	1250	100	0.15	200.0	20TQC100MD2	3000
		105	20.0	105		7.3	4.3	2.8	D3L	1700	55	0.10	200.0	20TQC100MYF	2500
		105	25.0	105	15	7.3	4.3	1.9	D2	1500	45	0.10	38.0	25TQC15MV	3000
	25	105	25.0	105		7.3	4.3	1.9		1000	90	0.10	38.0	25TQC15MYFD	3000
		105	25.0	105	22	7.3	4.3	1.9	D2	1500	45	0.10	55.0	25TQC22MV	3000
		105	25.0	105		7.3	4.3	1.9		1400	60	0.10	55.0	25TQC22MYFD	3000
		105	25.0	105		7.3	4.3	1.4	D15	1400	70	0.10	55.0	25TQC22MYFT	3000
		105	25.0	105	33	7.3	4.3	1.9	D2	1400	60	0.10	82.5	25TQC33MYF	3000
		105	25.0	105	68	7.3	4.3	2.8	D3L	1400	70	0.10	170.0	25TQC68MYF	2500
	35	105	35.0	105	10	7.3	4.3	1.9	D2	1000	120	0.10	35.0	35TQC10M	3000
		105	35.0	105		7.3	4.3	1.9		1000	120	0.10	35.0	35TQC10MYF	3000
		105	35.0	105	15	7.3	4.3	1.9		900	150	0.10	52.5	35TQC15MYF	3000

^{*1} Ripple current (100 kHz/ +105 °C), *2 ESR (100 kHz/+20 °C) *3 $an \delta$ (120 Hz/+20 °C) *4 After 5 minutes

[◆] Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications"