Surface Mount Type POSCAP

Series: TQC

Size: B

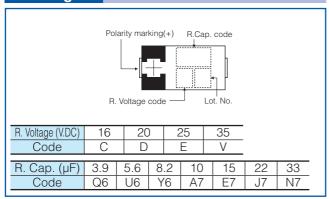


Features

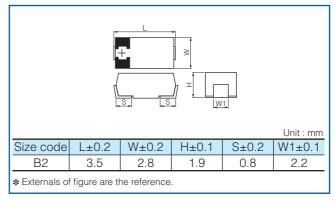
- High voltage (35 V.DC max.)
- RoHS compliance, Halogen free

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	5 %, 500 h, No-applied voltage								
Damp heat	Capacitance change	Within +40 %, -20 % of the initial value								
(Steady State)	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 temp. (°C)			Rated capacitance (µF)	Case size (mm)				Specifications				Standard		Floor life	
						L	W	Н	Size	Ripple*1 current (mAr.m.s.)	ESR *2 (mΩ max.)	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)	Reflow Temp ≤ 260°C	Reflow Temp ≤ 250°C
	16 NE	105	16.0	105	10	3.5	2.8	1.9		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	22	3.5	2.8	1.9		1000	90	0.10	35.2	16TQC22MYFB	2000		
		105	16.0	105	33	3.5	2.8	1.9		1000	90	0.10	158.4	16TQC33MYFB	2000		
TQC	20	105	20.0	105	8.2	3.5	2.8	1.9	B2	800	100	0.10	49.2	20TQC8R2M	2000	_	3
		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 $\tan\delta$ (120 Hz/+20 °C) *4 After 5 minutes
- ♦ Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications".

Panasonic Conductive Polymer Tantalum Solid Capacitors

Surface Mount Type

POSCAP



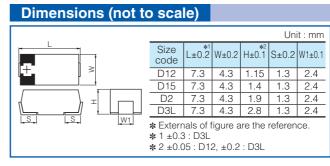
Series : TQC Size: D

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 attach	ned 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	tan δ \leq 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	Ü	Within $+40$ %, -20 % of the									
(Steady State)		≤ 1.5 times of the initial lir									
	DC leakage current ≤ 3 times of the initial limit										

Marking Polarity marking(+) R.Cap. code Lot. No. R. Voltage code R. Voltage (V.DC) 20 25 16 35 Code С D 1E ٧



Characteristics list																	
	Dotod		Cotogony	Category	capacitance	Case size (mm)				Specifications				Standard		Floor life	
Series			voltage (V.DC)	oltage temp.		L	W	Н	code	Ripple*1 current (mAr.m.s.)	$(m\Omega \text{ max.})$	lan o	(μΑ)	Part number	Min. Packaging Q'ty (pcs)) ≤ 260°C	Reflow Temp ≤ 250°C
		105	16.0	105	33	7.3	4.3	1.15	D12	1800	40	0.10	52.8	16TQC33MYFS	4500	_	
		105	16.0	105		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		
		105	16.0	105	47	7.3	4.3	1.9	D2	1800	40	0.10	75.2	16TQC47MW	3000		
	16	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		
		105	16.0	105	150	7.3	4.3	1.9	D2	1500	70	0.15	240.0	1CTQC15173F1	3000		
	20	105	20.0	105	33	7.3	4.3	1.9		1400	60	0.10	66.0	20TQC33MYFD	3000		
		105	20.0	105	47	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		3
100		105	20.0	105	100	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		1500	45	0.10	38.0	25TQC15MV	3000		
		105	25.0	105	10	7.3	4.3	1.9	D2	1000	90	0.10	38.0	25TQC15MYFD	3000		
		105	25.0	105		7.3	4.3	1.9		1500	45	0.10	55.0	25TQC22MV	3000		
	25	105	25.0	105	22	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	_	1
		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		
		105	35.0	105	10	7.3	4.3	1.9	D2	1000	120	0.10	35.0	35TQC10M	3000		
	35	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 tan δ (120 Hz/+20 °C) *4 After 5 minutes ♦ Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications".



Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products fit to such applications use before you use our products.
- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
- If you use our products in equipment that requires a high degree of reliability, regardless of the application, it is recommended that you set up protection circuits and redundancy circuits in order to ensure safety of your equipment.
- The products and product specifications described in this online catalog are subject to change for improvement without prior notice. Therefore, please be sure to request and confirm the latest product specifications which explain the specifications of our products in detail, before you finalize the design of your applications, purchase, or use our products.
- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
- If any of our products, product specifications and/or technical information in this online catalog is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially with regard to security and export control, shall be observed.

<Regarding the Certificate of Compliance with the EU RoHS Directive/REACH Regulations>

- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.