

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surface Mount Type

POSCAP

Series: TQS

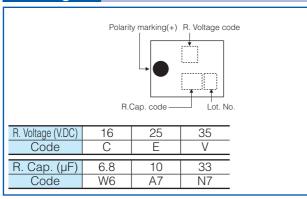


Features

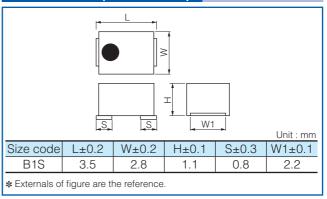
- High voltage (35 V.DC max.)
- RoHS compliance, Halogen free

Specifications								
Size code		B1S						
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	6.8 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							
Endurance	+105 °C, 1000 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						
	+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	≤ 1.5 times of the initial limit						
	DC leakage current	≤ 3 times of the initial limit						

Marking



Dimensions (not to scale)



Characteristics list

	Rated Ra voltage ter (V.DC) (°	Ratod		temp.	Rated capacitance (µF)	Case size (mm)				Specifications				Standard		Floor life	
		temp.				L	W	Н	Size code	Ripple*1 current (mAr.m.s.)		tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)	Reflow Temp ≤ 260°C	Reflow Temp ≤ 250°C
TQS	16	105	16.0	105	33	3.5	2.8	1.1	B1S	1500	70	0.10	52.8	16TQS33MBD	2500 – 2500 –		3
	25	105	25.0	105	10	3.5	2.8	1.1		1000	100	0.10	25.0	25TQS10MED		_	
	35	105	35.0	105	6.8	3.5	2.8	1.1		900	150	0.10	23.8	35TQS6R8MHD	2500		

- \pm 1 Ripple current (100 kHz/ \pm 105 °C), \pm 2 ESR (100 kHz/ \pm 20 °C) \pm 3 tan δ (120 Hz/ \pm 20 °C) \pm 4 After 5 minutes
- ♦ Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications".