

## 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
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

R. Voltage (V.DC)	16	25	35
Code	C	E	V
R. Cap. (μF)	6.8	10	33
Code	W6	A7	N7

### Dimensions (not to scale)

	Unit : mm				
Size code	L±0.2	W±0.2	H±0.1	S±0.3	W1±0.1
B1S	3.5	2.8	1.1	0.8	2.2

\* Externals of figure are the reference.

### 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		Floor life	
						L	W	H		Ripple* <sup>1</sup> current (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)	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	-	3
	25	105	25.0	105	10	3.5	2.8	1.1		1000	100	0.10	25.0	25TQS10MED	2500		
	35	105	35.0	105	6.8	3.5	2.8	1.1		900	150	0.10	23.8	35TQS6R8MHD	2500		

\*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".