

## 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)

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

Unit : mm

\* 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	
						L	W	H		Ripple current (mAr.m.s.) <sup>*1</sup>	ESR (mΩ max.) <sup>*2</sup>	tan δ <sup>*3</sup>	LC (μA) <sup>*4</sup>	Part number	Min. Packaging Qty (pcs)
TQS	16	105	16.0	105	33	3.5	2.8	1.1	B1S	1500	70	0.10	52.8	16TQS33MBD	2500
	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".