

# TS12

## FEATURES

- Small-size, large capacity, excellent voltage holding.
- For all ratings, uniform 5 mm pitch of terminal spacing.
- Wider temperature range(-25~+70°C) thank battery makes periodic change unnecessary.
- Ø13.5x7.5 size can encase up to 0.33F.
- Ideal for backing up of CMOS's, microcomputers, RAM's and the like used in VCR's, tuners, TV sets, telephone sets and other.



SPECIFICATIONS													
Operating temperature range (°C)	-25 to + 70												
Capacitance tolerance (%)	-20 to + 80												
Internal resistance at 1KHz	Standard Ratings, Miniaturized												
	Capacitance (F)	0.047	0.1	0.22	0.33	0.47	1.0	0.047	0.1	0.22	0.47	0.68	
Stability at low & high temperature	Internal resistance (Ω)	120	75	75	75	30	30	300	200	120	50	30	
	Percentage of capacitance change	Within ±30% of the value at °C											
Endurance (70°C)	Internal resistance	Less than five times of the value at 20 °C											
	Test time	1000 hours											
	Percentage of capacitance change	Within ±30% of the initial measured value											
Shelf life (70°C)	Internal resistance	Within four times the initial specified value (Coin Cell High Voltage: Less than four times of the initial specified value)											
	Shelf life (70°C)	Test time: 1000 hours : Same as endurance.											

Rated voltage (V)	Capacitance (F)	Standard Ratings	High-Temperature -20 + 85°C
		Ø D x L (mm)	Ø D x L (mm)
5.5	0.047	13.5 x 7.5	--
5.5	0.1	13.5 x 7.5	13.5 x 9.5
5.5	0.22	13.5 x 7.5	13.5 x 9.5
5.5	0.33	13.5 x 7.5	--
5.5	0.47	21.5 x 8	21.5 x 9.5
5.5	0.68	--	21.5 x 9.5
5.5	1.0	21.5 x 8	21.5 x 9.5

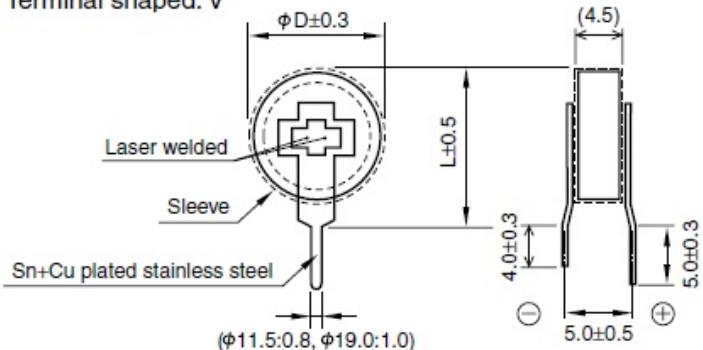
### Coin Cell High Voltage

Rated voltage (V)	Capacitance (F)	Ø D x L (mm)
6.3	0.047	13.5 x 9.5
6.3	0.1	13.5 x 9.5
6.3	0.47	21.5 x 9.5
6.3	0.68	21.5 x 9.5
6.3	1.0	21.5 x 9.5

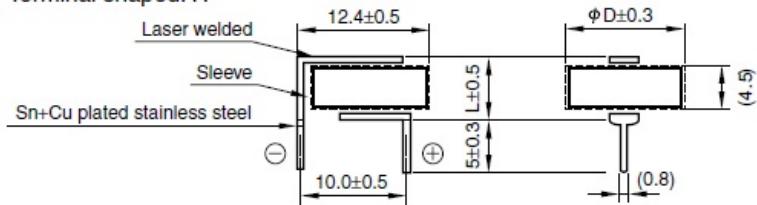
### Miniaturized

Rated voltage (V)	Capacitance (F)	Ø D x L (mm)
5.5	0.047	11.5 x 13
		11.5 x 5
5.5	0.1	11.5 x 13
		11.5 x 5
5.5	0.22	11.5 x 13
		11.5 x 5
5.5	0.33	11.5 x 13
		11.5 x 5
5.5	1.0	19 x 20.5

### Terminal shaped: V



### Terminal shaped: H



Note: Specification are subject to change without notice. For more detail and update, please visit our website.