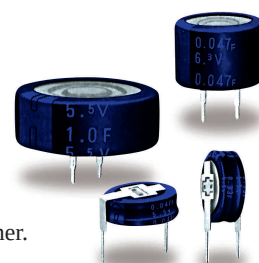


ELECTRIC DOUBLE LAYER CAPACITOR - GOLD CAPACITOR

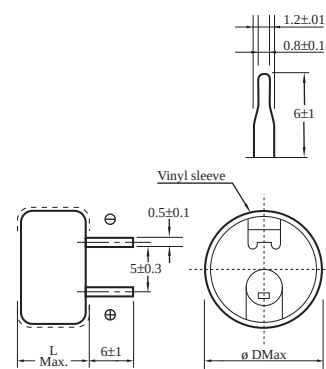
TS12

FEATURES

- Small-sized, large capacity, excellent voltage holding.
- For all ratings, uniform 5 mm pitch of terminal spacing.
- Wider temperature range(-25~+70°C) than battery makes periodic change unnecessary.
- ø3.5x7.5 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.



S	P	E	C	I	F	I	C	A	T	I	O	N	S				
Operating temperature range(°C)				-25 to + 70													
Capacitance tolerancer(%)				-20 to + 80													
Internal resistance				Capacitance(F)		0.047		0.1		0.22		0.33		0.47		1.0	
				Internal resistance(Ω)		120		75		75		73		30		30	
Stability at low & high temperature				Percentage of capacitance change						Within ±30% of the value at °C							
				Internal resistance						Less than five times of the value ar 20°C							
Load life (70°C)				Test time						1000 hours							
				Percentage of capacitance change						Within ±30% of the initial measured value							
				Internal resistance						Within four times the initial specified value							
Shelf life (70°C)				Test time :1000 hours : Dame as those for the load life.													



Standard Ratings

Rated voltage (V)	Capcittance (F)	ø D x L(mm)
5.5	0.047	13.5 x 7.5
5.5	0.1	13.5 x 7.5
5.5	0.22	13.5 x 7.5
5.5	0.33	13.5 x 7.5
5.5	0.47	21.5 x 8
5.5	1	21.5 x 8

High Power

Rated voltage (V)	Capcittance (F)	Real ESR(mΩ)	ø D x L(mm)
2.5	0.047	300	8 x 22
2.5	0.047	100	12.5 x 23
2.5	0.047	80	12.5 x 31.5
2.5	0.047	60	18 x 35
2.5	0.047	60	18 x 40
2.5	0.047	30	25 x 40
2.5	0.047	300	35 x 50

Coin Cell

Rated voltage (V)	Capcittance (F)	ø D x L(mm)
2.4	0.33	11 x 1.6
2.4	2.2	18.3 x 2
2.5	0.18	6.8 x 2.1

Miniaturized

Rated voltage (V)	Capcittance (F)	ø D x L(mm)
5.5	0.047	11.5 x 13
		11.5 x 5
		11.5 x 12.4
5.5	0.1	11.5 x 13
		11.5 x 5
		11.5 x 12.4
5.5	0.22	11.5 x 13
		11.5 x 5
		11.5 x 12.4
5.5	0.33	11.5 x 13
		11.5 x 5
		11.5 x 12.4
5.5	1.0	19 x 20.5

High-Temperature -20 + 85°C

Rated voltage (V)	Capcittance (F)	ø D x L(mm)
5.5	0.033	13.5 x 9.5
5.5	0.047	13.5 x 9.5
5.5	0.1	13.5 x 9.5
5.5	0.47	21.5 x 9.5
5.5	0.68	21.5 x 9.5
5.5	1	21.5 x 9.5

Coin Cell High Voltage

Rated voltage (V)	Capcittance (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	21.5 x 9.5