

DC Link Film Capacitors - Through Hole

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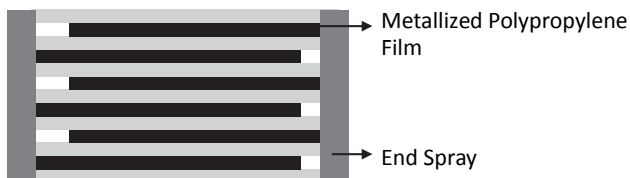
**RoHS
Compliant**



Features

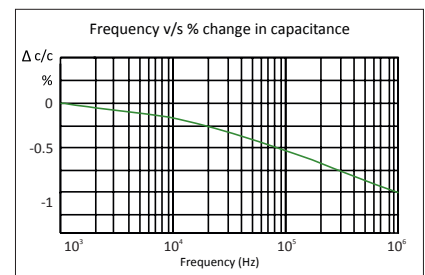
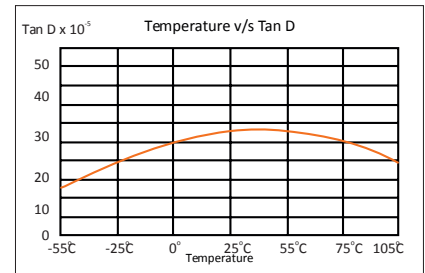
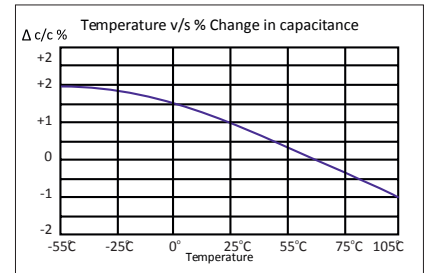
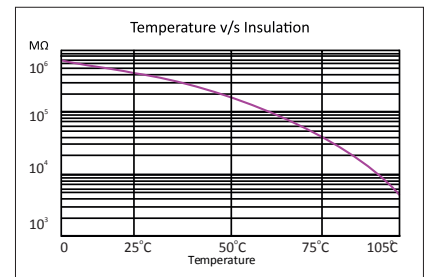
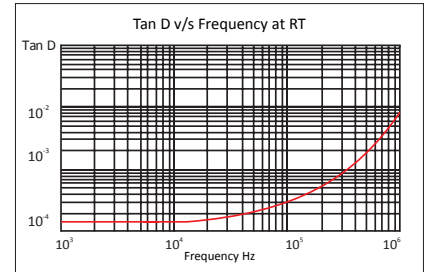
- Special metallized polypropylene film
- Low ESR
- High ripple
- High reliability
- Flame retardancy - UL94-V0

Construction



Applications

- DC filtering
- Wind power inverters
- Solar power inverters
- Induction heaters
- Electric vehicle inverters
- Motor drives



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Technical Specifications

Physical Characteristics

Dielectric material	: Polypropylene film
Electrode material	: Metallised polypropylene film
Winding construction	: Polypropylene film, metallised polypropylene film
Enclosure	: Preformed UL 94-V0 plastic case with thermosetting resin-fill
Terminals	: Tinned Copper

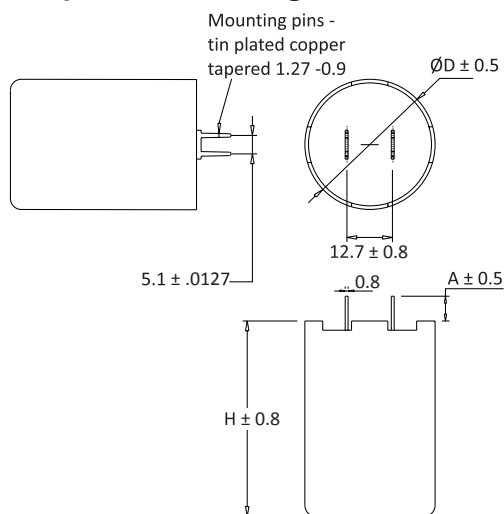
Electrical Characteristics

Capacitance range	: 7.5 μ F to 90 μ F
Capacity tolerance	: \pm 10%
Rated voltage V DC	: 600, 750, 800, 900, 1000, 1200, 1500
Test voltage between terminals	: 1.25 x rated voltage V DC for 60 seconds
Test voltage terminal to case	: 3KV AC at 50Hz for 60 seconds
Dissipation factor (Tan d)	: <0.0010 at 1 kHz and 25°C
Temperature range	: -40°C to +85°C
Insulation resistance M Ω \times μ F	: >10,000 s at 25°C (s = M Ω \times μ F)
Reference Standard	: IEC 61071 and IEC 60068

Marking on Capacitors

- Each capacitor will have the following information printed on it.
- The capacitor grade viz DCL-6
- The capacitance value μ F
- The rated voltage V DC
- Capacity tolerance and manufacturing code
- Part number on non-standard capacitors

Capacitor Drawing and Terminal Style



Terminal style : L2P/L3P

	L2P	L3P
A	7	7.6

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Standard Capacitor Values

Rated voltage VDC	Nominal Capacitance μ F at 1 kHz	Ripple current rating Irms at 10 kHz to 100kHz			Typical ESR at 100kHz m Ω	DV/DT	Dimensions mm		Terminal Style	Part Number
		25°C	50°C	75°C			\varnothing D	L		
600	30	20	17	12	9	30	36	54	L2P	MP004017
	70	33	26	13	6.5	22	50.8	50.8	L3P	MP004024
750	20	19	16	10	10	38	36	54	L2P	MP004015
	60	30	26	15	4	26	50.8	50.8	L3P	MP004020
	90	35	28	20	3	23	63.5	51.4	L3P	MP004025
800	15	18.5	15	9.8	10	42	36	54	L2P	MP004021
	90	45	28	20	3	27	63.5	51.4	L3P	MP004022
900	40	34	25	15	4.5	33	50.8	50.8	L3P	MP004019
	65	43	27	20	4	30	63.5	51.4	L3P	MP004023
1000	25	33	24	11	8.5	40	50.8	50.8	L3P	MP004016
	35	42	26	13	6.7	37	63.5	51.4	L3P	MP004018
1200	27	30	25	18	7.8	47	63.5	51.4	L3P	MP004012
	7.5	16	12	8.4	13.5	60	36	54	L2P	MP004013
	18	26	20	10	9	50	50.8	50.8	L3P	MP004014
1500	12	24	19	10	10	62	50.8	50.8	L3P	MP004010
	18	29	22	12	9	59	63.5	51.4	L3P	MP004011

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