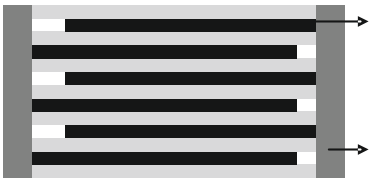
DCL-6



Highlights

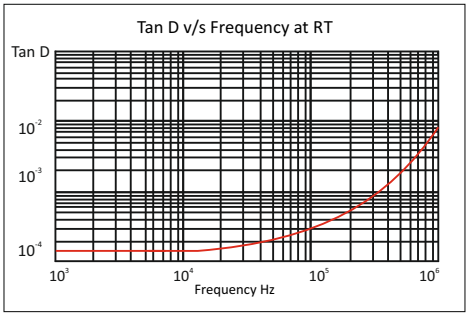
- Special metallized polypropylene film
- Low ESR
- High ripple
- High reliability
- Flame retardancy - UL94-V0

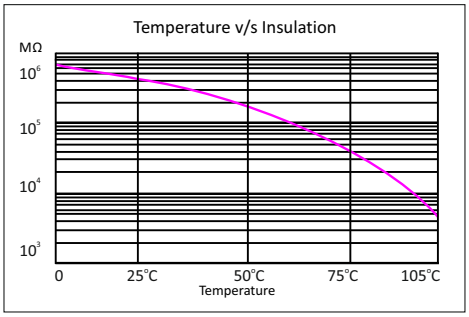
Construction

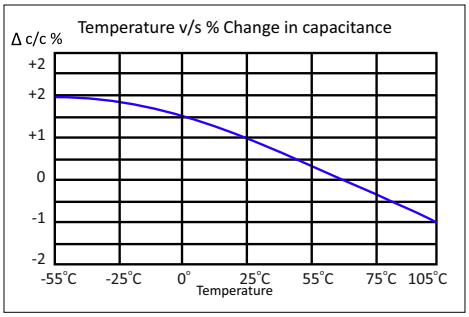


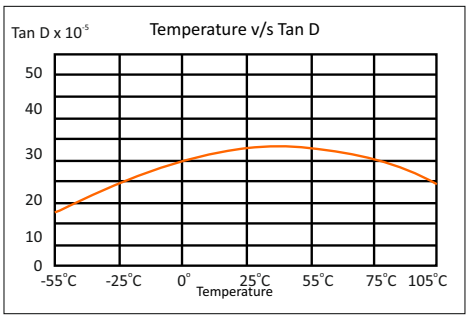
Applications

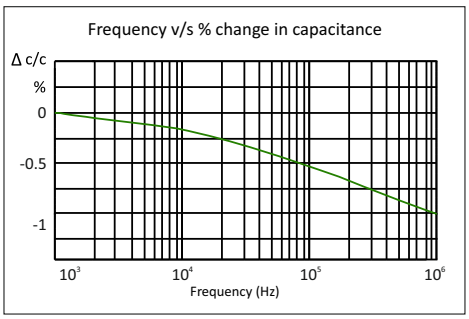
- DC filtering
- Wind power inverters
- Solar power inverters
- Induction heaters
- Electric vehicle inverters
- Motor drives











DCL-6

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	4.7µF to 120µF
▪ Capacity tolerance	±10%(K)
▪ Rated voltage VDC	400, 500, 600, 750, 800, 900, 1000, 1200, 1500
▪ Test voltage between terminals	1.25 x rated voltage VDC for 60 seconds
▪ Test voltage terminal to case	3KVAC at 50Hz for 60 seconds
▪ Dissipation factor (Tan d)	$\leq$0.0010 at 1 KHz and 25°C
▪ Temperature range	-40°C to +85°C
▪ Insulation resistance MΩ x µF	$\geq$10,000 s at 25°C (s = MΩ x µF)
▪ Reference Standard	IEC 61071 and IEC 60068

Marking on Capacitors

Each capacitor will have the following information printed on it, sequentially:

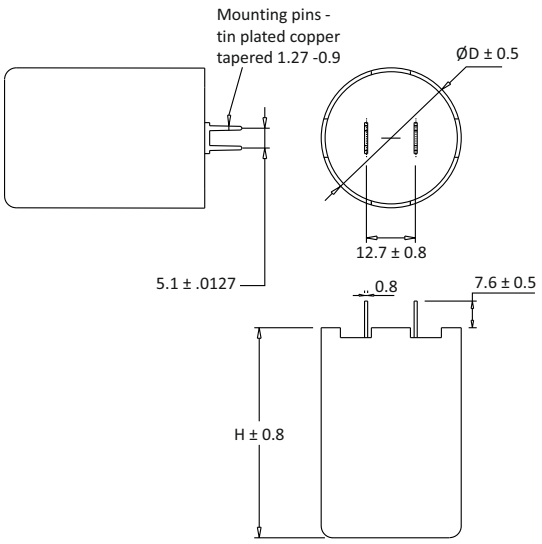
- The Company's name in words ALCON
- The capacitor grade viz DCL-6
- The capacitance value MFD
- The rated voltage VDC
- Capacity tolerance and manufacturing code
- Part number on non-standard capacitors

DCL-6

Standard Capacitor Values

Rated voltage VDC	Nominal Capacitance MFD at 1 Khz	Ripple current rating Irms at 10 Khz to 100Khz			Typical ESR at100KHz mΩ	DV/DT	Dimensions mm		Terminal Style
		25°C	50°C	75°C			ØD	L	
400	35.0	24.0	19.0	14.5	6.0	30	36.0	54.0	L2P
	80.0	35.0	28.0	14.5	5.0	20	50.8	50.8	L2P
	120.0	38.0	31.0	20.0	4.0	15	63.5	51.4	L2P
500	35.0	22.0	18.0	13.0	8.0	26	36.0	54.0	L2P
	75.0	34.0	27.0	14.0	5.1	16	50.8	50.8	L2P
	110.0	37.0	30.0	19.0	4.2	11	63.5	51.4	L2P
600	30.0	20.0	17.0	12.0	9.0	30	36.0	54.0	L2P
	70.0	33.0	26.0	13.0	6.5	22	50.8	50.8	L2P
	100.0	36.0	29.0	18.5	4.1	17	63.5	51.4	L2P
750	20.0	19.0	16.0	10.0	10.0	38	36.0	54.0	L2P
	60.0	30.0	26.0	15.0	4.0	26	50.8	50.8	L2P
	90.0	35.0	28.0	20.0	3.0	23	63.5	51.4	L2P
800	15.0	18.5	15.0	9.8	10.0	42	36.0	54.0	L2P
	60.0	35.0	26.0	15.0	4.0	30	50.8	50.8	L2P
	90.0	45.0	28.0	20.0	3.0	27	63.5	51.4	L2P
900	13.50	18.0	14.5	9.6	10.5	43	36.0	54.0	L2P
	40.0	34.0	25.0	15.0	4.5	33	50.8	50.8	L2P
	65.0	43.0	27.0	20.0	4.0	30	63.5	51.4	L2P
1000	10.0	17.5	13.5	9.0	12.0	50	36.0	54.0	L2P
	25.0	33.0	24.0	11.0	8.5	40	50.8	50.8	L2P
	35.0	42.0	26.0	13.0	6.7	37	63.5	51.4	L2P
1200	7.50	16.0	12.0	8.4	13.5	60	36.0	54.0	L2P
	18.0	26.0	20.0	10.0	9.0	50	50.8	50.8	L2P
	27.0	30.0	25.0	18.0	7.8	47	63.5	51.4	L2P
1500	4.70	15.0	11.5	7.8	15.0	72	36.0	54.0	L2P
	12.0	24.0	19.0	10.0	10.0	62	50.8	50.8	L2P
	18.0	29.0	22.0	12.0	9.0	59	63.5	51.4	L2P

Capacitor Drawing and Terminal Style



Terminal style : L2P

Dimensions in mm

Catalogue No. AEPL DCL-6-Dec-2013

The specification shown herein (page 1 to 3) pertain to the current manufacturing range of the Company. The Company reserves the right to change and /or modify any part of or whole of the specifications as a result of research and development and as may be necessary, without prior notice.

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