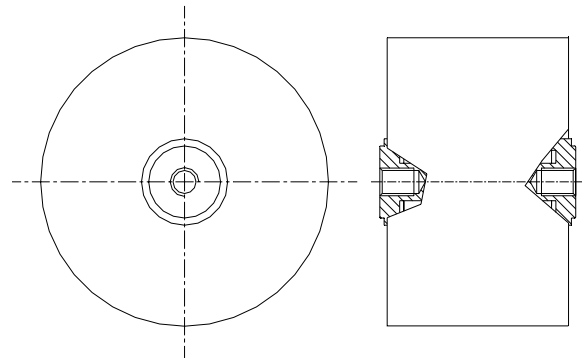


The capacitors of C4D Series are designed with reinforced metallized polypropylene dielectric film. These capacitors are suitable to withstand the heavy current pulses usually met in GTO protection. The axial connections allow to reduce series inductance and provide strong mechanical mounting reliable electrical contact and good thermal dissipation of heat produced during service.



**Applications:**

- Protection of GTO
- High ripple current D.C. filtering
- Medium frequency tuning
- Pulsed lasers

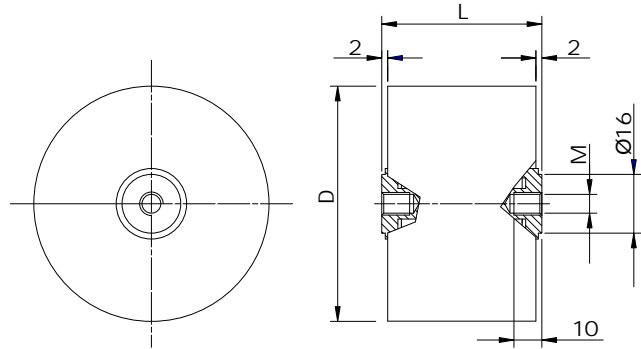
**Presentation:**

- Cylindrical plastic case
- Mechanical fixing by means of brass connections,
- Hole M8 threaded ( M6 on request )

**TECHNICAL DATA**

General technical data	VDE 0560 - IEC61071 - EN61071
IEC climatic category	40 / 85 / 56
Temperature range ( Case )	-40 to + 85 °C
Max permissible ambient temperature	+70 °C
Capacitance tolerance code	J = ± 5% ; K = ± 10%
Capacitance deviation in the operating temperature range of -40 to +85 °C	±1.5% max on capacitance value measured at +20 °C
Test voltage terminal to case U <sub>TC</sub>	5kV <sub>DC</sub> 50Hz for 60 seconds
Dissipation factor (tgδ)	≤ 3 x 10 <sup>-4</sup> at 1 kHz and 20°C
Permissible relative humidity	Annual average ≤ 95% on 30 days/year, continuously 100% on other days occasionally 100%. Dewing not admissible
Case components	Solvent resistant plastic case with resin sealing.
Terminals	Tinned brass (See figure on top)
Tightening torque	10Nm max for M8 thread and 6Nm max for M6 thread
Installation	Whatever Position
Life Expectancy	≥ 100.000 hours
Failure quota	300 / 10 <sup>9</sup> components hour

Rated D.C. Voltage $V_{DC}$	Test voltage between terminals $U_{TT}$ $V_{DC}$
850	1700
1000	2000
1400	2800
3000	4500



**PEAK VOLTAGE TABLE**

$U_n$	850	1000	1400	3000
$\hat{U}_{MAX}$	1200	1400	2000	4000
$\hat{U}_S$	1300	1500	2150	4200

**GENERAL CHARACTERISTICS**

Code	C	$U_n$	$U_{RMS}$	dV/dt	$I_{PKR}$	ESR	IRMS	K	Dimensions (mm)	
	$\mu F$	Vdc	Vac	V/ $\mu s$	A	Max @ 100kHz m	100kHz@70°C A		°W/C	D
C4DCMAQ4150AA0J	1.5	850	500	450	675	1.7	40	5.4	60	51
C4DCMAQ4200AA0J	2	850	500	450	900	1.5	43	5.5	60	51
C4DCMAQ4300AA0J	3	850	500	450	1350	1.2	53	4.5	72	51
C4DCMAQ4350AA0J	3.5	850	500	450	1575	1.1	55	4.4	72	51
C4DCMAQ4400AA0J	4	850	500	450	1800	1.1	59	3.8	80	51
C4DCMAQ4500AA0J	5	850	500	450	2250	1.1	62	3.7	80	51
C4DCMAQ4600AA0J	6	850	500	450	2700	1.0	69	3.1	90	51
C4DCNAQ4100AA0J	1	1000	600	525	525	2.1	36	5.5	60	51
C4DCNAQ4200AA0J	2	1000	600	525	1050	1.4	50	4.4	72	51
C4DCNAQ4250AA0J	2.5	1000	600	525	1312	1.3	56	3.6	80	51
C4DCNAQ4300AA0J	3	1000	600	525	1575	1.2	58	3.7	80	51
C4DCNAQ4350AA0J	3.5	1000	600	525	1837	1.1	65	3.1	90	51
C4DCNAQ4400AA0J	4	1000	600	525	2100	1.1	66	3.1	90	51
C4DCRAQ3500AA0J	0.5	1400	700	630	315	3.3	29	5.4	60	51
C4DCRAQ3800AA0J	0.8	1400	700	630	315	2.8	33	5.3	60	51
C4DCRAQ4100AA0J	1	1400	700	630	630	2.0	38	5.2	60	51
C4DCRAQ4100ZA0J	1	1400	700	1000	1000	0.6	70	1.9	90	51
C4DCRAQ4150AA0J	1.5	1400	700	380	570	2.2	38	4.7	60	64
C4DCRAQ4200AA0J	2	1400	700	380	760	1.8	46	3.9	72	64
C4DCRAQ4250AA0J	2.5	1400	700	380	950	1.6	50	3.8	72	64
C4DCRAQ4300AA0J	3	1400	700	380	1140	1.5	56	3.2	80	64
C4DCRAQ4400AA0J	4	1400	700	380	1520	1.3	64	2.8	90	64

Rated D.C. Voltage $V_{DC}$	Test voltage between terminals $U_{TT}$ $V_{DC}$
400	600
600	900
700	1050
850	1275
1200	1800

$U_n$	400	600	700	850	1200	1500
$\dot{U}_{max}$	560	840	980	1200	1680	2100
$\dot{U}_s$						