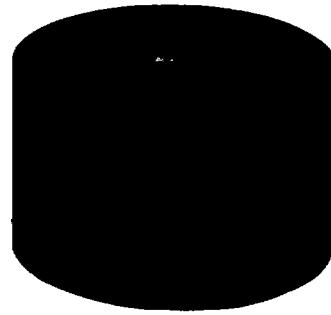


CAPACITORS FOR GTO PROTECTION

METALLIZED POLYPROPYLENE

MKP C 4DC Series



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 provides strong mechanical mounting.

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

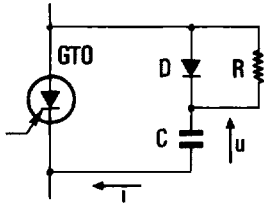
General technical data	VDE 0560 part 1 and 2 and IEC 1071
IEC climatic category	40/85/56
Temperature range (case)	-40 to +85°C
Capacitance tolerance	±5% and ±10%
Capacitance variation with temperature	≤ ±5%
Dissipation factor (tgδ Max at 1KHz)	≤ 3 × 10 ⁻⁴
Rated Voltage: U _N	850 V - 1000 V - 1400 V
Test voltage between terminals: U _{TT}	1700 V - 2000 V - 2800 V for 10 s at 25°C
Test voltage between shorted terminals and case: U _{TC}	5000 V - 50 Hz - 60 s
Insulation resistance (R × C)	≥ 3000 s
Equivalent Series Inductance ESL	≤ 10 nH
Life expectancy	≥ 100.000 Hours
Failure Quota	300/10 ⁹ components hours
Installation	Whatever position
Tightening torque	10 Nm max for M8 Thread and 6 Nm max for M6 Thread

CAPACITORS FOR GTO PROTECTION

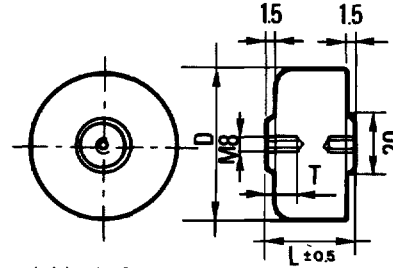
METALLIZED POLYPROPYLENE

MKP C 4DC Series

TYPICAL APPLICATION



CASE STYLE



T = Threaded length 9 mm ± 1

All dimensions are in mm

GENERAL CHARACTERISTICS

Code	C μF	U _N V	U _{RMS} V	U _{max} V	U _s V	ESR Typ. mΩ	dV/dt max V/μs	I _{PKR} max A	I _{RMS} max A	K °C/W	DIMENSIONS D (mm) L	
											±2	±0.5
C4DCMUQ4150	1,5	850	500	1200	1300	1,1	600	900	25	10,8	60	49
C4DCMUQ4200AA0	2	850	500	1200	1300	0,9	600	1200	30	10,2	60	49
C4DCMUQ4300AA0	3	850	500	1200	1300	0,8	600	1300	45	7,6	72	49
C4DCMUQ4350	3,5	850	500	1200	1300	0,7	600	2100	50	7,8	72	49
C4DCMUQ4400AA0	4	850	500	1200	1300	0,7	600	2400	60	6,3	82	49
C4DCMUQ4600AA1	6	850	500	1200	1300	0,7	600	3600	70	5,3	90	49
C4DCNUQ4100AA0	1	1000	600	1600	1750	1,3	600	600	25	9,9	60	49
C4DCNUQ4200AA0	2	1000	600	1600	1750	0,9	600	1200	40	7,8	72	49
C4DCNUQ4250AA0	2,5	1000	600	1600	1750	0,8	600	1500	50	6,4	82	49
C4DCNUQ4300AA0	3	1000	600	1600	1750	0,8	600	1800	60	6,4	82	49
C4DCNUQ4350	3,5	1000	600	1600	1750	0,7	600	2100	65	5,5	90	49
C4DCNUQ4400AA1	4	1000	600	1600	1750	0,7	600	2400	70	5,3	90	49
C4DCRUQ3500	0,5	1400	700	2000	2150	2,1	600	300	20	10,0	60	49
C4DCRUQ4100ZA0	1	1400	700	2000	2150	1,2	600	600	25	9,8	60	49
C4DCRUQ4100ZA1	1	1400	700	2000	2150	0,8	800	800	70	3,8	90	49
C4DCRUQ4150	1,5	1400	700	2000	2150	1,3	600	900	30	8,7	60	62
C4DCRUQ4200ZA1	2	1400	700	2000	2150	1,1	600	1200	35	6,7	72	62
C4DCRUQ4250	2,5	1400	700	2000	2150	1	600	1500	40	6,7	72	62
C4DCRUQ4300AA0	3	1400	700	2000	2150	0,9	600	1800	50	5,5	82	62
C4DCRUQ4400AA1	4	1400	700	2000	2150	0,8	600	2400	65	4,7	90	62