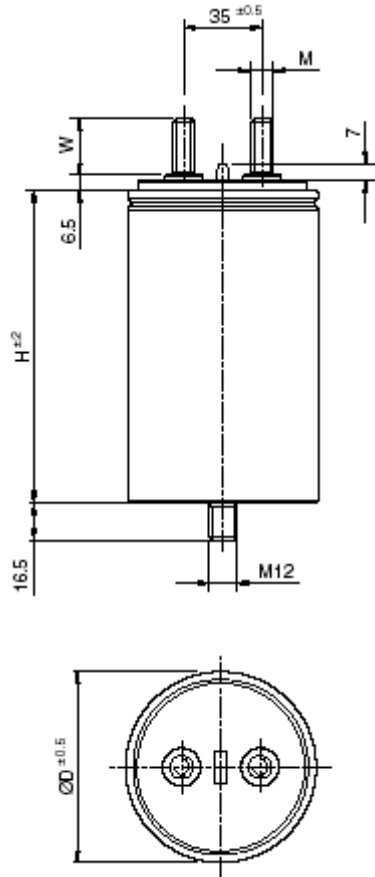


ALUMINIUM CASE CAPACITOR A.C. and D.C. FILTER APPLICATIONS

TECHNICAL DATA

General technical data	VDE 0560 – IEC 61071 – EN 61071
Application class (DIN 40040)	HSD / LS
Temperature range (Case)	-40 to +70 °C
Max permissible ambient temperature (operation at rated power, rated current and natural cooling)	+ 70 °C
Capacitance tolerance code (15 th digit)	J = ±5%; K = ±10%
Test voltage terminal to terminal U_{TT}	1.5 x U_{RMS} for 10 seconds
Test voltage terminal to case U_{TC}	4KV – 50Hz for 60 seconds
Rated insulation voltage U_i	700V – 50Hz – Insulation group B (VDE 0110 part 1)
Rated power Q	Reactive power at rated A.C. voltage U_{RMS} – 50Hz
Rated frequency F	50 ÷ 60Hz
Permissible relative humidity	Annual average humidity should be ≤ 95%; however, on 30 days per year it can be continuously 100% and on the other days it can be occasionally 100%. Dewing not permitted
IEC climatic category	25 / 70 /21
Degree of protection	IP00
Capacitance deviation in the operating temperature range of -40 to +85 °C	±1.5% max on capacitance value measured at +20°C
Change of capacitance versus operating time	-3% after 30,000 hours at U_{RMS} or after 100,000 hours at U_N
Terminals	Tinned brass fastons or screws (see figure above)
Installation	Any position
Life Expectancy	≥ 30,000 hours at U_{RMS} ; ≥ 100,000 hours at U_N
Failure quota	300 / 10 ⁹ components hour

ALUMINIUM CASE CAPACITOR A.C. and D.C. FILTER APPLICATIONS



Mechanical Characteristics

Case	Brass Screw Terminals					Bolt
D	W	M	Driving Torque Nm	Creepage distance	Clearance In air	Driving Torque Nm
76	13	M 6	4	18	22	10
76	25	M 10	7	18	22	10
85	25	M 10	7	22	22	10

Peak Voltage Table

Un V-	U _{PK} V-	Test voltage Vac	U _{RMS} Vac
400	600	375	250
600	800	570	380
750	1000	660	440
1200	1600	825	550

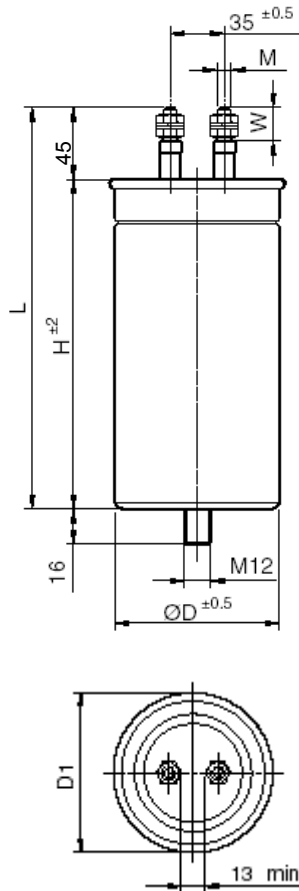
GENERAL CHARACTERISTICS

C μ F	Q KVAR	Un Vdc	U _{RMS} Vac	dv/dt V/ μ s	I _{PK} A	I _{RMS} A	Case		Approx. Weight Kg	Part Number
							D	H		
150	2.95	400	250	10	1500	30	76	138	0.63	C44EFGP6150ZA0-
200	3.93	400	250	10	2000	30	85	137	0.75	C44EFGP6200ZA0-
250	4.90	400	250	10	2500	60	85	185	1.05	C44EFGP6250ZA0-
300	5.89	400	250	10	3000	90	85	230	1.35	C44EFGP6300ZA0-
400	7.85	400	250	10	4000	90	85	270	1.71	C44EFGP6400ZA0-
100	4.53	600	380	20	2000	30	76	138	0.63	C44EHGP6100ZA0-
150	6.80	600	380	20	3000	60	85	200	1.15	C44EHGP6150ZA0-
200	9.07	600	380	20	4000	60	85	260	1.50	C44EHGP6200ZA0-
100	6.08	750	440	20	2000	60	85	185	1.05	C44EKGP6100ZA0-
120	7.30	750	440	20	2400	60	85	200	1.15	C44EKGP6120ZA0-
50	4.75	1200	550	30	1500	60	85	260	1.50	C44EPGR5500ZA0-
60	5.7	1200	550	30	1800	60	85	260	1.5	C44EPGR5600ZA0-

Tolerance: J ($\pm 5\%$); K ($\pm 10\%$)

All dimensions are in mm.

ALUMINIUM CASE CAPACITOR A.C. and D.C. FILTER APPLICATIONS



Mechanical Characteristics

Case	Brass Screw Terminals					Bolt
D	W	Thread	Driving Torque Nm	Creepage distance	Clearance In air	Driving Torque Nm
76	13	M 6	4	18	22	10
76	25	M 10	7	18	22	10
85	25	M 10	7	22	22	10
95	25	M 10	7	22	22	10

Peak Voltage Table

Un V-	U _{PK} V-	Test voltage Vac	U _{RMS} Vac
400	600	375	250
600	800	570	380
750	1000	660	440
1200	1600	825	550

GENERAL CHARACTERISTICS

C μF	Q KVAR	Un Vdc	U _{RMS} Vac	dv/dt V/μs	I _{PK} A	I _{RMS} A	Case			Approx. Weight Kg	Part Number
							D	H	L		
200	3.93	400	250	10	2000	60	89	155	202	0.95	C44PFGR6200AA0-
250	4.91	400	250	10	2500	60	89	195	242	1.10	C44PFGR6250AA0-
300	5.89	400	250	10	3000	60	79	268	315	1.25	C44PFGR6300AA0-
400	7.85	400	250	10	4000	65	89	268	315	1.71	C44PFGR6400AA0-
500	9.81	400	250	10	5000	65	89	268	315	1.75	C44PFGR6500AA0-
600	11.8	400	250	10	6000	65	99	280	327	2.15	C44PFGR6600AA0-
100	4.53	600	380	20	2000	25	79	155	202	0.82	C44PHGR6100AA0-
200	9.07	600	380	20	4000	60	89	268	315	1.71	C44PHGR6200AA0-
300	13.6	600	380	20	6000	65	99	248	295	2.15	C44PHGR6300AA0-
100	6.08	750	440	20	2000	60	89	195	242	1.10	C44PKGR6100AA0-
150	9.12	750	440	20	3000	60	89	268	315	1.71	C44PKGR6150AA0-
200	12.16	750	440	20	4000	65	99	280	327	2.15	C44PKGR6200AA0-
50	4.75	1200	550	30	1500	60	89	268	315	1.65	C44PPGR5500AA0-
60	5.70	1200	550	30	1800	60	89	268	315	1.71	C44PPGR5600AA0-
75	7.15	1200	550	30	2250	65	99	280	327	2.15	C44PPGR5750AA0-

Tolerance: J (± 5%); K (± 10%)

All dimensions are in mm.

Note: Care should be taken to ensure that there is still electrical clearance of 15mm between terminations and other live or earthed part above the capacitor, in case of safety device activation.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KEMET:

C44PKGR6200AA0J