

K37 TYPE -40°C +85°C 100000H

RoHS Compliant

- Metallized polypropylene film capacitor
- Non-inductive structure
- Long lifetime
- High ripple current handling capabilities
- Low ESR, Low ESL
- Self-healing properties
- High reliability

APPLICATIONS

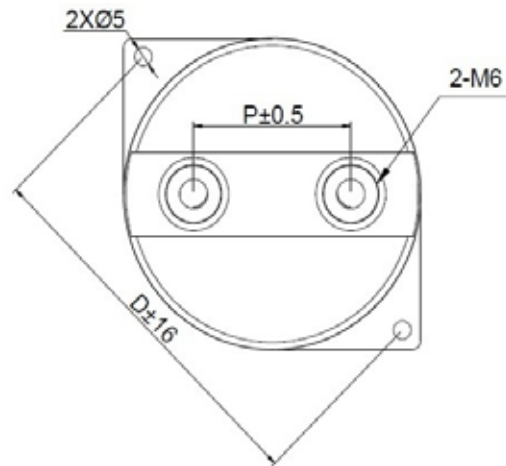
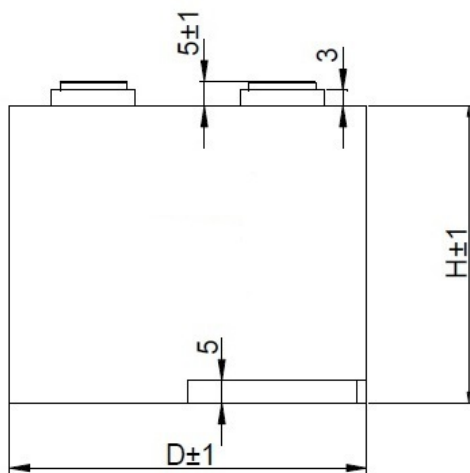
Different kinds of electronic equipment DC Link, High performance DC filtering, Industrial and high-end power supplies, Energy storage and filter, Frequency converters, Solar inverters

MECHANICAL SPECIFICATIONS

TERMINATION STYLE 1

All dimensions in mm

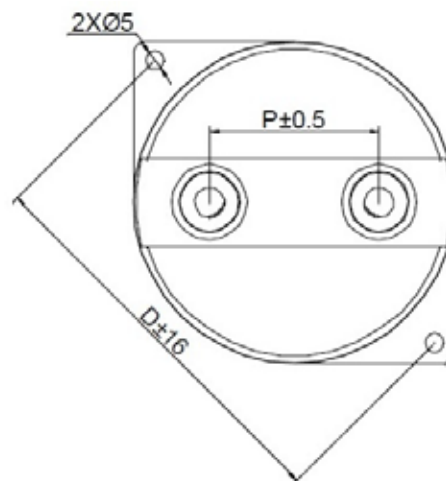
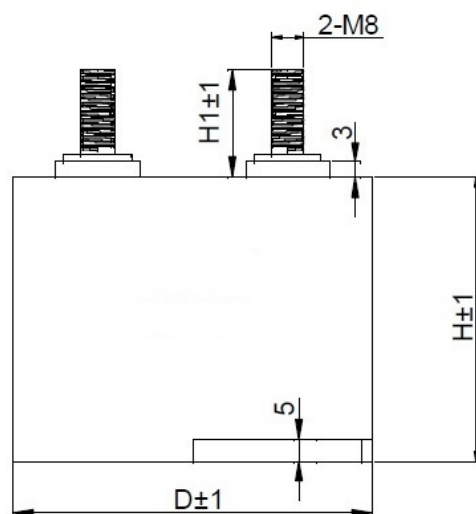
Digit 11th = M6 FEMALE



TERMINATION STYLE 2

All dimensions in mm

Digit 11th = M8 MALE



GENERAL INFORMATION

Reference standard	GB/T17702, IEC61071
Climatic category	40/85/56 IEC 68-1
Storage temperature	-40°C to +85°C
Temperature range	-40°C to +85°C
Voltage range	600V DC to 1500V DC
Capacitance range	40μF to 600μF
Capacitance tolerance (digit 12 th)	“K” = ±10%, “J” = ±5% upon request
Max Tangent of loss angle tg δ	≤ 20×10 ⁻⁴ (100Hz, 1V, 20±5°C)
Case material	Plastic case
Resin	Resin dry (UL-94 V0)
Max torque strength for terminals	For terminals M5 2.5 Nm For terminals M6 5 Nm For terminals M8 6 Nm
Max torque strength for installation	3 Nm
Insulation resistance	IRxCap ≥ 5000S at 20±5°C at 100VDC, 60sec
Test voltage between terminal-case	3000V AC for 10 sec at 20±5°C 50Hz
Test voltage between terminals	1.5 Vn for 10 sec at 20°C ±5°C
Over voltage	1.1Vn, 30% on load duration 1.15Vn for 30min/day 1.2Vn for 5min/day 1.3Vn for 1min/day 1.5Vn for 100ms each time, 1000 times in the life
Max Ripple current	60A at 45°C, 10kHz
Max Altitude	2000 m [note-1*]
Life Expectancy	100000 Hours at Nominal voltage 70°C
Failure Rate	50 FIT
End life criteria	Cap change ±10%
Test Conditions: Environment Temperature Environment Humidity	T = +20°C ±10°C RH ≤ 65%

[note-1*] when altitude exceeds 2000m:

The effect of altitude on convection cooling and external insulation should be taken into consideration.

K37 TYPE STANDARD RATINGS

Cap μF	Ø x H mm mm	P mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{RMS} 10kHz 45 A	PART NUMBER Insert excluded
260	85 50	45	0.92	35	2080	5.3	65	K376002610_K0L050
380	85 65	45	1.02	40	2280	5.0	65	K376003810_K0L065
600	115 64	60	1.15	40	3900	3.4	75	K376006010_K0S064

**RATED
VDC**

400V

Cap μF	Ø x H mm mm	P mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{RMS} 10kHz 45 A	PART NUMBER Insert excluded
150	85 50	45	1.05	35	2250	5.3	60	K378001510_K0L050
220	85 65	45	1.11	40	2200	5.0	60	K378002210_K0L065
350	115 64	60	1.30	40	3675	3.4	70	K378003510_K0S064

**RATED
VDC**

800V

Cap μF	Ø x H mm mm	P mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{RMS} 10kHz 45 A	PART NUMBER Insert excluded
150	85 50	45	1.05	35	2250	5.3	60	K379001510_K0L050
220	85 65	45	1.11	40	2200	5.0	60	K379002210_K0L065
350	115 64	60	1.35	40	3675	3.4	70	K379003510_K0S064

**RATED
VDC**

900V

Cap μF	Ø x H mm mm	P mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{RMS} 10kHz 45 A	PART NUMBER Insert excluded
100	85 50	45	1.31	35	1900	5.3	50	K371111010_K0L050
140	85 65	45	1.50	40	1820	5.0	50	K371111410_K0L065
190	85 65	45	1.72	45	1900	5.0	50	K371111910_K0L065
150	85 76	45	1.54	45	1800	4.6	55	K371111510_K0L076
230	115 64	60	1.44	40	3220	3.4	65	K371112310_K0S064

**RATED
VDC**

1100V

K37 TYPE STANDARD RATINGS

Cap μF	Ø x H mm mm	P mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{RMS} 10kHz 45 A	PART NUMBER Insert excluded
70	85 50	45	1.42	35	1400	5.3	50	K371317000_K0L050
100	85 65	45	1.79	40	1500	5.0	45	K371311010_K0L065
130	85 76	45	1.92	45	1690	4.6	45	K371311310_K0L076
160	115 64	60	1.62	40	2400	3.4	60	K371311610_K0S064

**RATED
VDC**

1300V

Cap μF	Ø x H mm mm	P mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{RMS} 10kHz 45 A	PART NUMBER Insert excluded
56	85 50	45	1.55	35	1400	5.3	50	K371415600_K0L050
86	85 65	45	1.80	40	1720	5.0	45	K371418600_K0L065
110	85 76	45	1.94	45	1650	4.6	45	K371411110_K0L076
130	115 64	60	1.73	40	2340	3.4	60	K371411310_K0S064

**RATED
VDC**

1400V

Cap μF	Ø x H mm mm	P mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{RMS} 10kHz 45 A	PART NUMBER Insert excluded
50	85 50	45	1.66	35	1250	5.3	45	K371515000_K0L050
76	85 65	45	1.92	40	1520	5.0	45	K371517600_K0L065
95	85 76	45	2.08	45	1710	4.6	45	K371519500_K0L076
110	115 64	60	1.82	40	2200	3.4	60	K371511110_K0S064

**RATED
VDC**

1500V

PLEASE TO CONTACT OUR TECHNICAL SERVICE FOR MORE INFORMATION OR SPEC-IN ANALYSIS.

PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

Total length is 17 digits

