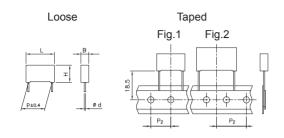
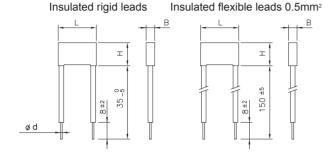
ARCOTRONICS





Ø d ±0.05	p ≤15	22.5 ≤ p ≤ 27.5	p = 37.5
Ø u ±0.05	0.6 or 0.8*	0.8	1.0

^{*}See size table

All dimensions are in mm.

GENERAL TECHNICAL DATA

Dielectric: polypropylene film.

Plates: metal layer deposited by evaporation under vacuum.

Winding: non-inductive type.

Leads: tinned wire.

Protection: plastic case, thermosetting resin filled.

Box material is solvent resistant and flame retardant according to

UL94 V0.

Marking: Manufacturer's logo, series, capacitance, tolerance, rated voltage, capacitor class, dielectric code, climatic category, passive flammability category, manufacturing date code, approvals, manufacturing plant.

Climatic category: 40/110/56 IEC 60068-1

Operating temperature range: -40 to +110°C

Related documents: IEC 60384-14, EN 60384-14.

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 310Vac / 800Vdc; (50/60Hz)

330Vac / 800Vdc; (50/60Hz)

Capacitance range: $0.01\mu\text{F}$ to $6.8\mu\text{F}$ Capacitance values: E6 series (IEC 60063 Norm). Capacitance tolerances (measured at 1 kHz):

±10% (K); ±20% (M);

Tolerance ±5% (J) available upon request.

Dissipation factor (DF):

tgδx10⁻⁴ at +25°C ±5°C: ≤10 (6)* at 1kHz

* Typical value

Insulation resistance:

Test conditions

Temperature: +25°C±5°C Voltage charge time: 1 min Voltage charge: 100 Vdc

Performance

≥1x10⁵ M Ω (5x10⁵ M Ω)* for C≤0.33 μ F ≥30000 s (150000 s)* for C>0.33 μ F

* Typical value

Test voltage between terminations (on all pieces): 1500Vac for 1 s + 2200Vdc for 1 s at +25°C±5°C

R.49

X1 CLASS (IEC 60384-14) - MKP Series **METALLIZED POLYPROPYLENE FILM CAPACITOR** SELF-HEALING PROPERTIES

Typical applications: interference suppression and «across-the-line» applications. Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

Class X1 shall be applied for PERMANENTLY CONNECTED APPARATUS.

Note: PERMANENTLY CONNECTED APPARATUS:

apparatus which is intended for connection to the mains by a connection which cannot be loosened ${\bf BY\ HAND}.$

BY HAND:

operation that does not require the use of any object

such a tool, coin, etc.

PRODUCT CODE: R49

Note: R.49 series has replaced the 1.58 series (available upon request). For new design we suggest the use of the R.49 series.

Pitch	Box thickness (B)	Maximum dimensions (mm)		
(mm)	(mm)	B max	H max	L max
10.0	All	B +0.2	H +0.1	L +0.2
15.0	<7.5	B +0.2	H +0.1	L +0.3
15.0	≥7.5	B +0.2	H +0.1	L +0.5
22.5	All	B +0.2	H +0.1	L +0.3
27.5	All	B +0.2	H +0.1	L +0.3
37.5	All	B +0.3	H +0.1	L +0.3

TEST METHOD AND PERFORMANCE

Damp heat, steady state:

Test conditions

Temperature: +40°C±2°C
Relative humidity (RH): 93% ±2%
Test duration: 56 days

Performance

Dielectric strength: no dielectric breakdown or

flashover at 4.3 x V_R (d.c.)/1 min

Capacitance change |∆C/C|: ≤5%

Insulation resistance: ≥50% of initial limit.

Endurance:

Test conditions

Temperature: +110°C±2°C
Test duration: 1000 h

Voltage applied: 1.25 x V_p +1000Vac 0.1 s/h

Performance

Dielectric strength: no dielectric breakdown or

flashover at 4.3 x V_R (d.c.)/1 min

Capacitance change |∆C/C|: ≤10%

Insulation resistance: ≥50% of initial limit.

Resistance to soldering heat:

Test conditions

Solder bath temperature: +260°C±5°C Dipping time (with heat screen):10 s±1 s

Performance

Capacitance change |∆C/C|: ≤2%

Winding scheme

