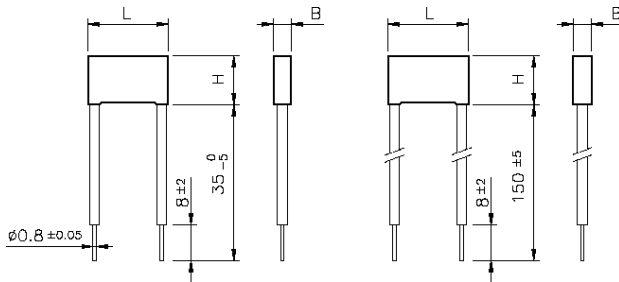


Insulated rigid leads

Insulated flexible leads 0.5mm²



All dimensions are in mm

GENERAL TECHNICAL DATA

Dielectric: polyester film (polyethylene terephthalate).

Plates: metal layer deposited by evaporation under vacuum.

Winding: non-inductive type.

Leads: tinned wire.

Protection: plastic case, epoxy 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: 40/100/21 IEC 60068-1

Operating temperature range: -40 to +100 °C

Related documents: IEC 60384-14 2nd edition 1993 plus amendment A1: 1995; EN 132400.

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 250Vac; 50/60Hz

Capacitance range: 0.01µF to 0.1µF

Capacitance values: E6 series (IEC 60063 Norm).

Capacitance tolerances (measured at 1 kHz):
± 10% (K); ± 20% (M).

Dissipation factor (DF):

$tg\delta \times 10^{-4}$ at +25 °C ± 5 °C: ≤ 100 (60)* at 1kHz

* Typical value

Insulation resistance:

Test conditions

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

Performance

≥ 3 × 10⁴ MΩ (5 × 10⁴ MΩ)* for C ≤ 0.33µF

≥ 10000 s (17000 s)* for C > 0.33µF

* Typical value

Test voltage between terminations (on all pieces):

1500Vac for 1 s + 2200Vdc for 1 s at +25 °C ± 5 °C

Rated Cap.	250 Vac				Max dv/dt at 390Vdc (V/µs)	Part Number
	B	H	L	p		
0.010 µF	5.0	11.0	18.0	15.0	400	R.58.LI.2100.-.01.-
0.015 µF	5.0	11.0	18.0	15.0	400	R.58.LI.2150.-.01.-
0.022 µF	5.0	11.0	18.0	15.0	400	R.58.LI.2220.-.01.-
0.033 µF	5.0	11.0	18.0	15.0	400	R.58.LI.2330.-.01.-
0.047 µF	6.0	12.0	18.0	15.0	400	R.58.LI.2470.-.01.-
0.068 µF	7.5	13.5	18.0	15.0	400	R.58.LI.2680.-.01.-
0.10 µF	8.5	14.5	18.0	15.0	400	R.58.LI.3100.-.01.-

Mechanical version and packaging:

51: insulated rigid leads

52: insulated flexible leads 0.5mm²

Tolerance: K (± 10%); M (± 20%)

All dimensions are in mm

X2 CLASS (EN132400) - MKT Series

METALLIZED POLYESTER FILM CAPACITOR

SELF-HEALING PROPERTIES

Typical applications: interference suppression.

Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

PRODUCT CODE: **R58**

TEST METHOD AND PERFORMANCE

Damp heat, steady state:

Test conditions

Temperature: +40 ± 2 °C
Relative humidity (RH): 93 ± 2%
Test duration: 21 days

Performance

Dielectric strength: no dielectric breakdown or flashover at 4.3 × V_R (d.c.)/1 min

Capacitance change |ΔC/C|: ≤ 5%

Insulation resistance: ≥ 50% of initial limit.

Endurance:

Test conditions

Temperature: +100 °C ± 2 °C
Test duration: 1000 h
Voltage applied: 1.25 × V_R + 1000Vac 0.1 s/h

Performance

Dielectric strength: no dielectric breakdown or flashover at 4.3 × V_R (d.c.)/1 min

Capacitance change |ΔC/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 |ΔC/C|: ≤ 2%

APPROVALS

	IMQ EN 132400	Class X2	File No. V4436
	UL 1283	Electromagnetic interference filters	File No. E85238

Approved according to EN132400 (IEC 60384-14 2nd Edition '93 plus Amendment A1: 1995).

According to IEC 60065.

Winding scheme

