



∅ d ± 0.05	p = 10	p ≥ 15
	0.6	0.8

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: 40/110/56 IEC 60068-1
Operating temperature range: -40 to +110°C
Related documents: IEC 60384-14 2nd edition 1993, + amendment A1: 1995; EN132400.

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 250Vac; 50/60Hz
Capacitance range: 0.001µF to 0.1µF
Capacitance values: E6 series (IEC 60063 Norm).
Capacitance tolerances (measured at 1 kHz):
 ± 10% (K); ± 20% (M).
Dissipation factor (DF):
 tgδ × 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 min
 Voltage charge: 100 Vdc

Performance
 ≥ 3 × 10⁴ MΩ (5 × 10⁴ MΩ)*
 * Typical value

Test voltage between terminations (on all pieces):
 2500Vac for 1 s + 5000Vdc for 1 s at +25°C ± 5°C

Rated Cap.	250 Vac				Max dv/dt at 350Vdc (V/µs)	Part Number
	B	H	L	p		
1000 pF	4.0	9.0	13.0	10.0	500	R41.LF.1100.-.-00.-
1500 pF	4.0	9.0	13.0	10.0	500	R41.LF.1150.-.-00.-
2200 pF	4.0	9.0	13.0	10.0	500	R41.LF.1220.-.-00.-
3300 pF	5.0	11.0	13.0	10.0	500	R41.LF.1330.-.-00.-
4700 pF	5.0	11.0	13.0	10.0	500	R41.LF.1470.-.-00.-
6800 pF	6.0	12.0	13.0	10.0	500	R41.LF.1680.-.-00.-
0.010 µF	5.0	11.0	18.0	15.0	500	R41.LI.2100.-.-00.-
0.015 µF	6.0	12.0	18.0	15.0	500	R41.LI.2150.-.-00.-
0.022 µF	7.5	13.5	18.0	15.0	500	R41.LI.2220.-.-00.-
0.033 µF	8.5	14.5	18.0	15.0	500	R41.LI.2330.-.-00.-
0.047 µF	6.0	15.0	26.5	22.5	500	R41.LN.2470.-.-00.-
0.068 µF	7.0	16.0	26.5	22.5	500	R41.LN.2680.-.-00.-
0.10 µF	10.0	18.5	26.5	22.5	500	R41.LN.3100.-.-00.-

Mechanical version and packaging (Table 1)
 Tolerance: K (± 10%); M (± 20%)

All dimensions are in mm

Y2 / X1 CLASS (EN132400) - MKT Series METALLIZED POLYESTER FILM CAPACITOR

SELF-HEALING PROPERTIES

Typical applications: Interference suppression and «across-the-line» and «line to ground» applications. Suitable for use in situations where failure of the capacitor could lead to danger of electric shock.

PRODUCT CODE: R41

TEST METHOD AND PERFORMANCE

Damp heat, steady state:

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

Performance
 Dielectric strength: no dielectric breakdown or flashover at 1500Vac/1 min

Capacitance change |ΔC/C|: ≤ 5%
 Insulation resistance: ≥ 50% of initial limit.

Endurance:

Test conditions
 Temperature: 110°C ± 2°C
 Test duration: 1000 h
 Voltage applied: 1.7 × V_R + 1000Vac 0.1 s/h

Performance
 Dielectric strength: no dielectric breakdown or flashover at 1500Vac/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 Y2 / X1	File No. V4160
	CB		File No. IT-1409
VDE	EN132400	Class Y2	File No.119626
CSA	C22.2 N°1	Across-the-line or line-to-ground	File No. LR83890
UL	1414	Across-the-line or line-to-ground	File No. E 97797
CCEE	IEC60384-14	Class Y2	File No.

Approved according to EN132400 (IEC 60384-14 2nd ed. 1993 plus Amendment A1: 1995).

According to IEC 60065.

Table 1 (for more detailed information, please refer to page 15).

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		12.70	1	10.0/15.0	DQ
AMMO-PACK		19.05	2	22.5	DQ
Loose, short leads	4 +2				00
Loose, long leads	30 +5				50

Note: Reel packaging available upon request.

Winding scheme

