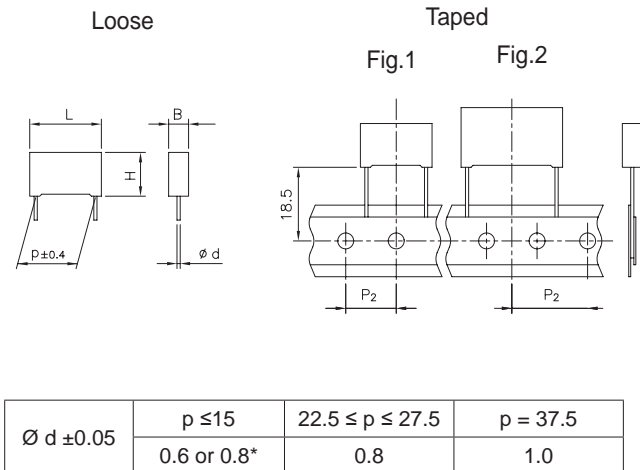


X2 CLASS (IEC 60384-14) - MKP Series METALLIZED POLYPROPYLENE FILM CAPACITOR SELF-HEALING PROPERTIES



*See size table.

All dimensions are in mm.

GENERAL TECHNICAL DATA

Dielectric: polypropylene film - 2 sections.

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): 440Vac / 1000Vdc; 50/60Hz

Capacitance range: 4700pF to 2.2µF

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):

$\text{tg} \delta \times 10^{-4}$ 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

≥1×10⁵ MΩ for C≤0.33µF

≥30000 s for C>0.33µF

Test voltage between terminations (on all pieces):

1700Vac for 1 s + 2700Vdc for 1 s at +25°C ±5°C

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.

PRODUCT CODE: R47

| Pitch (mm) | Box thickness (B) (mm) | Maximum dimensions (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 1st

Temperature: +40°C ± 2°C

Relative humidity (RH): 93% ±2%

Test duration: 56 days

Test conditions 2nd

Temperature: +60°C ± 2°C

Relative humidity (RH): 95% ±2%

Test duration: 500 hours

Performance

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

Capacitance change $|\Delta C/C|$: ≤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_R +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 $|\Delta C/C|$: ≤10%

Insulation resistance: ≥50% of initial limit.

Resistance to soldering heat:

Test conditions

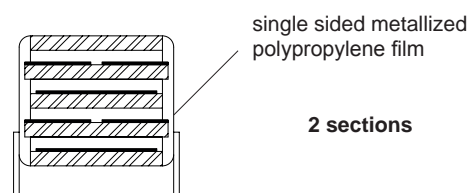
Solder bath temperature: +260°C ± 5°C

Dipping time (with heat screen): 10 s ± 1 s

Performance

Capacitance change $|\Delta C/C|$: ≤2%



Winding scheme



X2 CLASS (IEC60384-14) - MKP Series METALLIZED POLYPROPYLENE FILM CAPACITOR SELF-HEALING PROPERTIES

PRODUCT CODE: R47

APPROVALS

| | | | |
|--|--|--|------------------------|
|  (*) | ENEC IEC 60384-14 | Class X2 | File No. CA08.00101 |
|  | UL 1414 up to 1µF, 85°C; 250Vac) | Across-the-line | File No. E97797 |
| | UL 1283 | Electromagnetic Interference Filters | File No. E85238 |

Approved according to IEC 60384-14
According to IEC 60065.

(*) ENEC mark has replaced all the following European
National marks:



| Rated Cap. | 440 Vac / 1000 Vdc Std dimensions | | | | Ø d | Max dv/dt at 420Vdc (V/µs) | Part Number | |
|------------|--------------------------------------|------|------|------|-----|-------------------------------------|-------------|--------------|
| | B | H | L | p | | | | |
| 4700 pF | 4.0 | 9.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 1470 -- 01 - |
| 6800 pF | 5.0 | 11.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 1680 -- 01 - |
| 8200 pF | 6.0 | 12.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 1820 -- 01 - |
| 0.010 µF | 6.0 | 12.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 2100 -- 01 - |
| 0.010 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2100 -- 01 - |
| 0.012 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2120 -- 01 - |
| 0.015 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2150 -- 01 - |
| 0.018 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2180 -- 01 - |
| 0.022 µF | 6.0 | 12.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2220 -- 01 - |
| 0.027 µF | 6.0 | 12.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2270 -- 01 - |
| 0.033 µF | 6.0 | 12.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2330 -- 01 - |
| 0.039 µF | 7.5 | 13.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2390 -- 01 - |
| 0.047 µF | 7.5 | 13.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2470 -- 01 - |
| 0.047 µF | 6.0 | 17.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2470 -- 02 - |
| 0.047 µF | 9.0 | 12.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2470 -- 03 - |
| 0.056 µF | 8.5 | 14.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2560 -- 01 - |
| 0.068 µF | 10.0 | 16.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2680 -- 01 - |
| 0.068 µF | 7.5 | 18.5 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2680 -- 02 - |
| 0.068 µF | 13.0 | 12.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2680 -- 03 - |
| 0.082 µF | 10.0 | 16.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2820 -- 01 - |
| 0.10 µF | 11.0 | 19.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 3100 -- 01 - |
| 0.047 µF | 6.0 | 15.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 2470 -- 01 - |
| 0.047 µF | 6.5 | 13.5 | 26.5 | 22.5 | 0.8 | 300 | R474N | 2470 -- 02 - |
| 0.068 µF | 6.0 | 15.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 2680 -- 01 - |
| 0.10 µF | 7.0 | 16.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3100 -- 01 - |
| 0.12 µF | 8.5 | 17.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3120 -- 01 - |
| 0.15 µF | 10.0 | 18.5 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3150 -- 01 - |
| 0.18 µF | 10.0 | 18.5 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3180 -- 01 - |
| 0.22 µF | 11.0 | 20.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3220 -- 01 - |
| 0.27 µF | 13.0 | 22.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3270 -- 01 - |
| 0.33 µF | 13.0 | 22.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3330 -- 01 - |
| 0.15 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3150 -- 01 - |
| 0.18 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3180 -- 01 - |
| 0.22 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3220 -- 01 - |
| 0.27 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3270 -- 02 - |
| 0.33 µF | 11.0 | 20.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3330 -- 02 - |
| 0.39 µF | 11.0 | 20.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3390 -- 01 - |
| 0.47 µF | 13.0 | 22.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3470 -- 01 - |
| 0.56 µF | 13.0 | 22.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3560 -- 01 - |
| 0.68 µF | 14.0 | 28.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3680 -- 01 - |
| 0.82 µF | 18.0 | 33.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3820 -- 01 - |
| 1.0 µF | 18.0 | 33.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 4100 -- 01 - |
| 1.2 µF | 18.0 | 33.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 4120 -- 01 - |
| 1.5 µF | 22.0 | 37.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 4150 -- 01 - |
| 0.47 µF | 11.0 | 22.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3470 -- 01 - |
| 0.56 µF | 11.0 | 22.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3560 -- 01 - |
| 0.68 µF | 13.0 | 24.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3680 -- 01 - |
| 0.82 µF | 16.0 | 28.5 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3820 -- 01 - |
| 1.0 µF | 16.0 | 28.5 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4100 -- 01 - |
| 1.2 µF | 19.0 | 32.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4120 -- 01 - |
| 1.5 µF | 19.0 | 32.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4150 -- 01 - |
| 1.8 µF | 20.0 | 40.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4180 -- 01 - |
| 2.2 µF | 20.0 | 40.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4220 -- 01 - |

Table 1

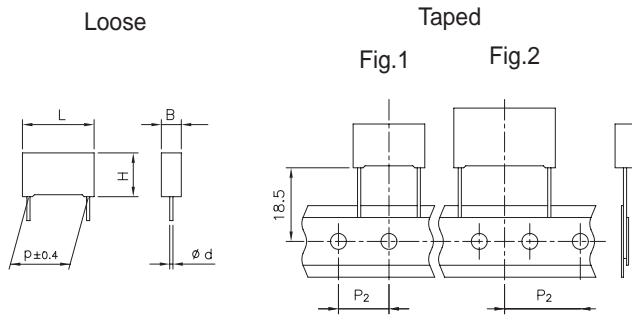
| Standard packaging style | Lead length (mm) | Taping style | | | Ordering code (Digit 10 to 11) |
|-----------------------------|------------------------|------------------------|---------------|---------------|--------------------------------------|
| | | P ₂ (mm) | Fig. (No.) | Pitch (mm) | |
| AMMO-PACK | | 12.70 | 1 | 10.0/15.0 | DQ |
| AMMO-PACK | | 19.05 | 2 | 22.5 | DQ |
| REEL Ø500mm | | 12.70 | 1 | 10.0/15.0 | CK |
| REEL Ø500mm | | 19.05 | 2 | 22.5/27.5 | CK |
| Loose, short leads | 4 ⁺² | | | | 00 |
| Loose, long leads | 25 ^{-1/+2} | | | | 50 |
| Loose, long leads | 30 ⁺⁵ | | | | 40 |

Note: Ammo-pack is the preferred packaging for taped version.

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

All dimensions are in mm

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



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

*See size table.
 All dimensions are in mm.

GENERAL TECHNICAL DATA

Dielectric: polypropylene film - 2 sections.
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; EN60384-14

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 440Vac / 1000Vdc; 50/60Hz
Capacitance range: 4700pF to 2.2µF
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):
 tgδ x 10⁻⁴ 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 MΩ for C≤0.33µF
 ≥30000 s for C>0.33µF

Test voltage between terminations (on all pieces):
 1700Vac for 1 s + 2700Vdc for 1 s at +25°C±5°C

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 **BY HAND**.
BY HAND:
 operation that does not require the use of any object such a tool, coin, etc.

PRODUCT CODE: R47

| Pitch (mm) | Box thickness (B) (mm) | Maximum dimensions (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 1st

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

Test conditions 2nd

Temperature: +60°C ± 2°C
 Relative humidity (RH): 95% ±2%
 Test duration: 500 hours

Performance

Dielectric strength: no dielectric breakdown or flashover at 4.3 x V_R (d.c.)/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: 1.25 x V_R +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 |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%

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

PRODUCT CODE: R47

APPROVALS

| Rated Cap. | 440 Vac / 1000 Vdc Std dimensions | | | | Ø d | Max dv/dt at 420Vdc (V/µs) | Part Number | |
|------------|--------------------------------------|------|------|------|-----|-------------------------------------|-------------|--------------|
| | B | H | L | p | | | | |
| 4700 pF | 4.0 | 9.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 1470 -- A1 - |
| 6800 pF | 5.0 | 11.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 1680 -- A1 - |
| 8200 pF | 6.0 | 12.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 1820 -- A1 - |
| 0.010 µF | 6.0 | 12.0 | 13.0 | 10.0 | 0.6 | 750 | R474F | 2100 -- A1 - |
| 0.010 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2100 -- A1 - |
| 0.012 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2120 -- A1 - |
| 0.015 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2150 -- A1 - |
| 0.018 µF | 5.0 | 11.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2180 -- A1 - |
| 0.022 µF | 6.0 | 12.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2220 -- A1 - |
| 0.027 µF | 6.0 | 12.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2270 -- A1 - |
| 0.033 µF | 6.0 | 12.0 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2330 -- A1 - |
| 0.039 µF | 7.5 | 13.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2390 -- A1 - |
| 0.047 µF | 7.5 | 13.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2470 -- A1 - |
| 0.047 µF | 6.0 | 17.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2470 -- A2 - |
| 0.047 µF | 9.0 | 12.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2470 -- A3 - |
| 0.056 µF | 8.5 | 14.5 | 18.0 | 15.0 | 0.6 | 600 | R474I | 2560 -- A1 - |
| 0.068 µF | 10.0 | 16.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2680 -- A1 - |
| 0.068 µF | 7.5 | 18.5 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2680 -- A2 - |
| 0.068 µF | 13.0 | 12.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2680 -- A3 - |
| 0.082 µF | 10.0 | 16.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 2820 -- A1 - |
| 0.10 µF | 11.0 | 19.0 | 18.0 | 15.0 | 0.8 | 600 | R474I | 3100 -- A1 - |
| 0.047 µF | 6.0 | 15.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 2470 -- A1 - |
| 0.047 µF | 6.5 | 13.5 | 26.5 | 22.5 | 0.8 | 300 | R474N | 2470 -- A2 - |
| 0.068 µF | 6.0 | 15.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 2680 -- A1 - |
| 0.10 µF | 7.0 | 16.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3100 -- A1 - |
| 0.12 µF | 8.5 | 17.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3120 -- A1 - |
| 0.15 µF | 10.0 | 18.5 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3150 -- A1 - |
| 0.18 µF | 10.0 | 18.5 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3180 -- A1 - |
| 0.22 µF | 11.0 | 20.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3220 -- A1 - |
| 0.27 µF | 13.0 | 22.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3270 -- A1 - |
| 0.33 µF | 13.0 | 22.0 | 26.5 | 22.5 | 0.8 | 300 | R474N | 3330 -- A1 - |
| 0.15 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3150 -- A1 - |
| 0.18 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3180 -- A1 - |
| 0.22 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3220 -- A1 - |
| 0.27 µF | 9.0 | 17.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3270 -- A2 - |
| 0.33 µF | 11.0 | 20.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3330 -- A2 - |
| 0.39 µF | 11.0 | 20.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3390 -- A1 - |
| 0.47 µF | 13.0 | 22.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3470 -- A1 - |
| 0.56 µF | 13.0 | 22.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3560 -- A1 - |
| 0.68 µF | 14.0 | 28.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3680 -- A1 - |
| 0.82 µF | 18.0 | 33.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 3820 -- A1 - |
| 1.0 µF | 18.0 | 33.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 4100 -- A1 - |
| 1.2 µF | 18.0 | 33.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 4120 -- A1 - |
| 1.5 µF | 22.0 | 37.0 | 32.0 | 27.5 | 0.8 | 225 | R474R | 4150 -- A1 - |
| 0.47 µF | 11.0 | 22.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3470 -- A1 - |
| 0.56 µF | 11.0 | 22.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3560 -- A1 - |
| 0.68 µF | 13.0 | 24.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3680 -- A1 - |
| 0.82 µF | 16.0 | 28.5 | 41.5 | 37.5 | 1.0 | 150 | R474W | 3820 -- A1 - |
| 1.0 µF | 16.0 | 28.5 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4100 -- A1 - |
| 1.2 µF | 19.0 | 32.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4120 -- A1 - |
| 1.5 µF | 19.0 | 32.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4150 -- A1 - |
| 1.8 µF | 20.0 | 40.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4180 -- A1 - |
| 2.2 µF | 20.0 | 40.0 | 41.5 | 37.5 | 1.0 | 150 | R474W | 4220 -- A1 - |

| | | | |
|---|---------------------------------------|--|------------------------|
|  | ENEC IEC 60384-14 | Class X1 | File No. CA08.00101 |
|  | UL 1414 up to 1µF, 85°C; 250Vac | Across-the-line | File No. E97797 |
| | UL 1283 | Electromagnetic Interference Filters | File No. E85238 |

Approved according to IEC 60384-14
According to IEC 60065.

(*) ENEC mark has replaced all the following European
National marks:

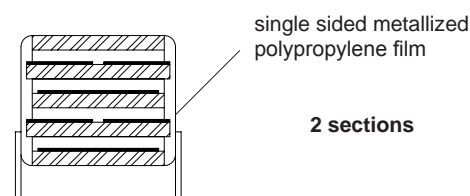


Table 1

| 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 |
| REEL Ø500mm | | 12.70 | 1 | 10.0/15.0 | CK |
| REEL Ø500mm | | 19.05 | 2 | 22.5/27.5 | CK |
| Loose, short leads | 4 ⁺² | | | | 00 |
| Loose, long leads | 25 ^{-1/+2} | | | | 50 |
| Loose, long leads | 30 ⁺⁵ | | | | 40 |

Note: Ammo-pack is the preferred packaging for taped version.

Winding scheme



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

All dimensions are in mm

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