

Overview

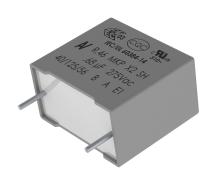
The R46 Series is constructed of metallized polypropylene film encapsulated with self-extinguishing resin in a box of material that meets the requirements of UL 94 V-0.

Applications

For worldwide use in electromagnetic interference (EMI) suppression in across-the-line applications that require X2 safety classification. Intended for use in situations in which capacitor failure would not result in exposure to electric shock. Not for use in "series with mains" type applications.

Benefits

- Approvals: ENEC, UL, cUL, CQC
- X2 CLASS (IEC 60384-14)
- Rated voltage: 275 VAC 50/60 Hz
- Capacitance range: 0.01 10 μF
- Lead spacing: 10.0 37.5 mm
- Capacitance tolerance: ±20%, ±10%
- Climatic category 40/110/56, IEC 60068-1
- Tape & Reel in accordance with IEC 60286-2
- · RoHS compliant and lead-free terminations
- Operating temperature range of -40°C to +110°C
- 100% screening factory test at 2,200 VDC/1,500 VAC
- Self healing properties



R46	К	I.	2100	00	01	М
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X2, Metallized Polypropylene	K = 275	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	01 02 L2 M1 M2 N0 N1 N2	K = ±10% M = ±20%

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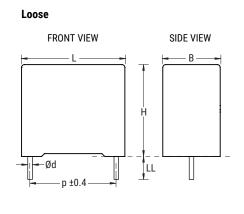
Ordering Options Table

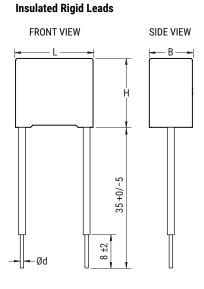
Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	00
	Ammo Pack	$H_{n} = 18.5 \pm 0.5$	DQ
	Other Lead and Packaging Options		
	Tape & Reel (Large Reel)	H ₀ = 18.5 ±0.5	СК
	Bulk (Bag) – Short Leads	2.7 +0.5/-0	JA
10	Bulk (Bag) – Short Leads	3.5 +0.5/-0	JB
15	Bulk (Bag) – Short Leads	4.0 +0.5/-0	JE
22.5	Bulk (Bag) – Short Leads	3.2 +0.3/-0.2	JH
	Bulk (Bag) – Long Leads	18 ±1	JM
	Bulk (Bag) – Long Leads	30 +5/-0	40
	Bulk (Bag) – Long Leads	25 +2/-1	50
		· · ·	
	Bulk (Bag) – Insulated Rigid Leads	30 +5/-0 (sp 8 ±2)	51
	Bulk (Bag) – Insulated Flexible Leads	150 ±5 (sp 8 ±2)	52
	Standard Lead and Packaging Options		
	Bulk (Bag) – Short Leads	4 +2/-0	00
	Tape & Reel (Large Reel)	H ₀ = 18.5 ±0.5	СК
	Other Lead and Packaging Options		
	Bulk (Tray) – Short Leads	2.7 +0.5/-0	JA
07 E	Bulk (Tray) – Short Leads	3.5 +0.5/-0	JB
27.5	Bulk (Tray) – Short Leads	4.0 +0.5/-0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/-0.2	JH
	Bulk (Tray) – Long Leads	18 ±1	JM
	Bulk (Tray) – Long Leads	30 +5/-0 25 +2/-1	40
	Bulk (Tray) – Long Leads Bulk (Bag) – Insulated Rigid Leads	30 +5/-0 (sp 8 ±2)	50 51
	Bulk (Bag) – Insulated Flexible Leads	150 ±5 (sp 8 ±2)	52
		100 10 (00 0 12)	
	Standard Lead and Packaging Options		
	Bulk (Tray) – Short Leads	4 +2/-0	00
	Other Lead and Packaging Options		
	Bulk (Tray) – Short Leads	2.7 +0.5/-0	JA
	Bulk (Tray) – Short Leads	3.5 +0.5/-0	JB
37.5	Bulk (Tray) – Short Leads	4.0 +0.5/-0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/-0.2	JH
	Bulk (Tray) – Long Leads	18 ±1	JM
	Bulk (Tray) – Long Leads	30 +5/-0	40
	Bulk (Tray) – Long Leads	25 +2/-1	50
	Bulk (Bag) – Insulated Rigid Leads	30 +5/-0 (sp 8 ±2)	51
	Bulk (Bag) – Insulated Flexible Leads	150 ±5 (sp 8 ±2)	52

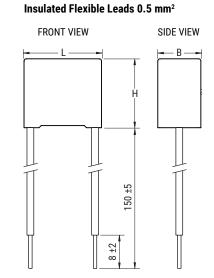
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Dimensions – Millimeters



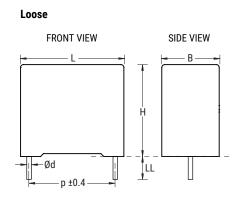


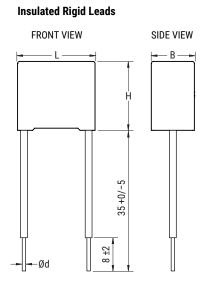


	p	I	3	Н		L		d	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
10.0	±0.4	4.0	+0.2	9.0	+0.1	13.0	+0.2	0.6	±0.05
10.0	±0.4	5.0	+0.2	11.0	+0.1	13.0	+0.2	0.6	±0.05
10.0	±0.4	6.0	+0.2	12.0	+0.1	13.0	+0.2	0.6	±0.05
15.0	±0.4	5.0	+0.2	11.0	+0.1	18.0	+0.3	0.6	±0.05
15.0	±0.4	6.0	+0.2	12.0	+0.1	18.0	+0.3	0.6	±0.05
15.0	±0.4	6.0	+0.2	17.5	+0.1	18.0	+0.3	0.6	±0.05
15.0	±0.4	7.5	+0.2	13.5	+0.1	18.0	+0.5	0.6	±0.05
15.0	±0.4	7.5	+0.2	18.5	+0.1	18.0	+0.5	0.8	±0.05
15.0	±0.4	8.5	+0.2	14.5	+0.1	18.0	+0.5	0.6	±0.05
15.0	±0.4	9.0	+0.2	12.5	+0.1	18.0	+0.5	0.6	±0.05
15.0	±0.4	10.0	+0.2	16.0	+0.1	18.0	+0.5	0.8	±0.05
15.0	±0.4	11.0	+0.2	19.0	+0.1	18.0	+0.5	0.8	±0.05
15.0	±0.4	13.0	+0.2	12.0	+0.1	18.0	+0.5	0.8	±0.05
22.5	±0.4	6.0	+0.2	15.0	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	7.0	+0.2	16.0	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	10.0	+0.2	18.5	+0.1	26.5	+0.3	0.8	±0.05
22.5	±0.4	11.0	+0.2	20.0	+0.1	26.5	+0.3	0.8	±0.05
27.5	±0.4	9.0	+0.2	17.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	11.0	+0.2	20.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	13.0	+0.2	22.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	13.0	+0.2	25.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	14.0	+0.2	28.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	18.0	+0.2	33.0	+0.1	32.0	+0.3	0.8	±0.05
27.5	±0.4	22.0	+0.2	37.0	+0.1	32.0	+0.3	0.8	±0.05
		Note: Se	e Ordering O	ptions Tabl	e for lead ler	ngth (LL/H₀)	options.		

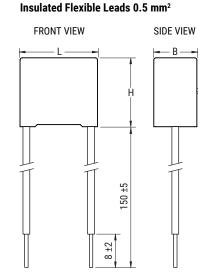


Dimensions - Millimeters cont'd





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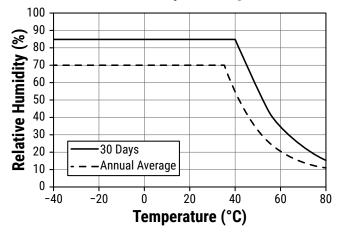
I	p	В		Н		L		d	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
37.5	±0.4	11.0	+0.3	22.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	13.0	+0.3	24.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	16.0	+0.3	28.5	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	19.0	+0.3	32.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	20.0	+0.3	40.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	24.0	+0.3	44.0	+0.1	41.5	+0.3	1.0	±0.05
37.5	±0.4	30.0	+0.3	45.0	+0.1	41.5	+0.3	1.0	±0.05
	Note: See Ordering Options Table for lead length (LL/ H_0) options.								



Performance Characteristics

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.
Related Documents	IEC 60384–14, EN 60384–14
Rated Voltage $V_{_{\rm R}}$	275 VAC (50/60 Hz), 560 VDC
Capacitance Range	0.010 μF to 1 μF
Capacitance Values	E6 series (IEC 60063) measured at 1 kHz and +20±1°C
Capacitance Tolerance	±10%, ±20%
Temperature Range	-40°C to +125°C
Climatic Category	40/125/56 IEC 60068-1
	Storage time: ≤ 24 months from the date marked on the label package
	Average relative humidity per year ≤ 70%
Storage Conditions	RH \leq 85% for 30 days randomly distributed throughout the year
	Dew is absent
	Temperature: -40 to 80°C (see "Maximum Humidity in Storage Conditions" graph below)
Approvals	ENEC, UL, cUL, CQC

Maximum Humidity in Storage Conditions

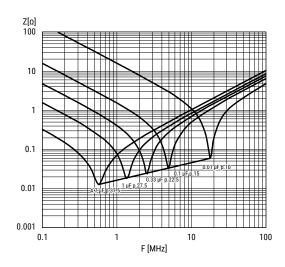




Performance Characteristics cont'd

Dissipation Factor (tanδ)	≤ 0.1% (0.06%*) at 1 kHz, +25°C ±5°C (* typical value)					
Test Voltage Between Terminals	The 100% screening factory test is carried out at 2,200 VDC/1,500 VAC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. This test cannot be repeated, as there is a risk of damaging the capacitor. KEMET is not liable in such cases for any failures.					
	Measured at +25°C ±5°C, according to IEC 60384–2					
	Minimum Values Between Terminals					
Insulation Resistance	Voltage Charge	Voltage Charge Time	C ≤ 0.33 µF	C > 0.33 µF		
	100 VDC	1 minute	≥ 1 • 10 ⁵ MΩ (≥ 5 • 10 ⁵ MΩ)*	≥ 30,000 MΩ • μF (≥ 150,000 MΩ • μF)*		
In DC Applications	Recommended voltage ≤ 560 VDC					

Impedance Graph





Environmental Test Data

Test	IEC Publication	Procedure
Endurance	EN/IEC 60384-14	1.25 x V _R VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s²
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384-14	V _R + 20 surge pulses at 2.5 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle flame test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days

Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	V4413
c Sa us	UL 60384–14 and CAN/CSA E60384–14 (310 VAC)	E97797
Cec	GB/T 14472 IEC 60384–14	CQC08001026549 CQC11001060118 CQC13001087757 CQC14001116028 CQC13001101266 CQC14001116000

Environmental Compliance

All KEMET EMI capacitors are RoHS compliant.

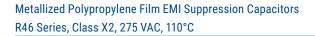




Table 1 – Ratings & Part Number Reference

Capacitance	Dime	ensions ir	n mm	Lead Spacing	dV/dt	New KEMET	Legacy Part
Value (µF)	В	Н	L	(p)	(V/µs)	Part Number	Number
0.010	4.0	9.0	13.0	10.0	500	46KF2100(1)N0(2)	R46KF2100(1)N0(2)
0.015	4.0	9.0	13.0	10.0	500	46KF2150(1)N0(2)	R46KF2150(1)N0(2)
0.022	4.0	9.0	13.0	10.0	500	46KF2220(1)N0(2)	R46KF2220(1)N0(2)
0.033	5.0	11.0	13.0	10.0	500	46KF2330(1)M1(2)	R46KF2330(1)M1(2)
0.047	5.0	11.0	13.0	10.0	500	46KF2470(1)N0(2)	R46KF2470(1)N0(2)
0.068	6.0	12.0	13.0	10.0	500	46KF2680(1)M1(2)	R46KF2680(1)M1(2)
0.10	6.0	12.0	13.0	10.0	500	46KF3100(1)M1(3)	R46KF3100(1)M1(3)
0.010	5.0	11.0	18.0	15.0	400	46KI2100(1)01(2)	R46KI2100(1)01(2)
0.015	5.0	11.0	18.0	15.0	400	46KI2150(1)01(2)	R46KI2150(1)01(2)
0.022	5.0	11.0	18.0	15.0	400	46KI2220(1)01(2)	R46KI2220(1)01(2)
0.033	5.0	11.0	18.0	15.0	400	46KI2330(1)01(2)	R46KI2330(1)01(2)
0.047	5.0	11.0	18.0	15.0	400	46KI2470(1)01(2)	R46KI2470(1)01(2)
0.068	5.0	11.0	18.0	15.0	400	46KI2680(1)01(2)	R46KI2680(1)01(2)
0.10	5.0	11.0	18.0	15.0	400	46KI3100(1)M1(2)	R46KI3100(1)M1(2)
0.15	6.0	12.0	18.0	15.0	400	46KI3150(1)M2(2)	R46KI3150(1)M2(2)
0.15	9.0	12.5	18.0	15.0	400	46KI3150(1)L2(2)	R46KI3150(1)L2(2)
0.22	7.5	13.5	18.0	15.0	400	46KI3220(1)M2(2)	R46KI3220(1)M2(2)
0.22 0.22	9.0	12.5 17.5	18.0	15.0 15.0	400 400	46KI3220(1)L2(2)	R46KI3220(1)L2(2)
0.22	6.0 8.5	17.5	18.0 18.0	15.0	400	46KI3220(1)02(2)	R46KI3220(1)02(2) R46KI3330(1)N0(2)
0.33	10.0	14.5	18.0	15.0	400	46KI3330(1)N0(2) 46KI3330(1)M1(2)	R46KI3330(1)M1(2)
0.33	9.0	10.0 12.5	18.0	15.0 15.0	400	46KI 3330(1)N1(2)	R46KI3330(1)N1(2)
0.33	7.5	18.5	18.0	15.0	400	46KI3330(1)02(2)	R46KI3330(1)02(2)
0.33	13.0	12.0	18.0	15.0	400	46KI3330(1)02(2)	R46KI3330(1)02(2)
0.47	7.5	18.5	18.0	15.0	400	46KI3470(1)02(2)	R46KI3470(1)02(2)
0.47	10.0	16.0	18.0	15.0	400	46KI3470(1)N0(3)	R46KI3470(1)02(2)
0.47	11.0	19.0	18.0	15.0	400	46KI3470(1)M1(2)	R46KI3470(1)M1(2)
0.56	11.0	19.0	18.0	15.0	400	46KI3560(1)N0(2)	R46KI3560(1)N0(2)
0.60	11.0	19.0	18.0	15.0	400	46KI3600(1)N0(2)	R46KI3600(1)N0(2)
0.15	6.0	15.0	26.5	22.5	200	46KN3150(1)01(2)	R46KN3150(1)01(2)
0.22	6.0	15.0	26.5	22.5	200	46KN3220(1)M1(2)	R46KN3220(1)M1(2)
0.33	6.0	15.0	26.5	22.5	200	46KN3330(1)N0(2)	R46KN3330(1)N0(2)
0.47	7.0	16.0	26.5	22.5	200	46KN3470(1)N0(2)	R46KN3470(1)N0(2)
0.68	10.0	18.5	26.5	22.5	200	46KN3680(1)M2(2)	R46KN3680(1)M2(2)
1.00	10.0	18.5	26.5	22.5	200	46KN4100(1)N2(3)	R46KN4100(1)N2(3)
1.00	11.0	20.0	26.5	22.5	200	46KN4100(1)N1(2)	R46KN4100(1)N1(2)
0.47	9.0	17.0	32.0	27.5	150	46KR3470(1)01(2)	R46KR3470(1)01(2)
0.68	9.0	17.0	32.0	27.5	150	46KR3680(1)M1(2)	R46KR3680(1)M1(2)
1.0	11.0	20.0	32.0	27.5	150	46KR4100(1)M1(2)	R46KR4100(1)M1(2)
1.5	13.0	22.0	32.0	27.5	150	46KR4150(1)M1(2)	R46KR4150(1)M1(2)
2.2	13.0	25.0	32.0	27.5	150	46KR4220(1)M2(2)	R46KR4220(1)M2(2)
2.2	14.0	28.0	32.0	27.5	150	46KR4220(1)M1(2)	R46KR4220(1)M1(2)
3.3	18.0	33.0	32.0	27.5	150	46KR4330(1)M2(2)	R46KR4330(1)M2(2)
4.7	18.0	33.0	32.0	27.5	150	46KR4470(1)M2(2)	R46KR4470(1)M2(2)
4.7	22.0	37.0	32.0	27.5	150	46KR4470(1)M1(2)	R46KR4470(1)M1(2)
1.5	11.0	22.0	41.5	37.5	100	46KW4150(1)M1(2)	R46KW4150(1)M1(2)
2.2	11.0	22.0	41.5	37.5	100	46KW4220(1)M2(3)	R46KW4220(1)M2(3)
2.2	13.0	24.0	41.5	37.5	100	46KW4220(1)M1(2)	R46KW4220(1)M1(2)
3.3 4.7	16.0	28.5	41.5 41.5	37.5	100	46KW4330(1)M1(2)	R46KW4330(1)M1(2)
4.7 4.7	16.0	28.5 22.0		37.5	100	46KW4470(1)M2(3)	R46KW4470(1)M2(3)
4.7 6.8	19.0 20.0	32.0 40.0	41.5 41.5	37.5 37.5	100 100	46KW4470(1)M1(2) 46KW4680(1)M2(2)	R46KW4470(1)M1(2) R46KW4680(1)M2(2)
6.8	20.0	40.0	41.5	37.5	100	46KW4680(1)M2(2)	R46KW4680(1)M2(2)
10.0	30.0	44.0	41.5	37.5	100	46KW5100(1)M1(2)	R46KW5100(1)M1(2)
10.0	00.0	40.0	71.0	1	100		
Capacitance Value (µF)	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	New KEMET	Legacy Part Number
		. ,		Spacing (p)		Part Number	

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) $M = \pm 20\%$, $K = \pm 10\%$

(3) M = ±20% (only available tolerance)



Soldering Process

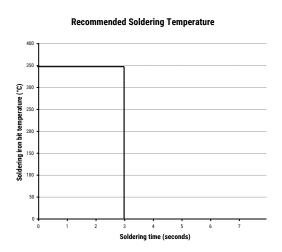
The implementation of the RoHS directive has resulted in the selection of SnAuCu (SAC) alloys or SnCu alloys as primary solder material. This has increased the liquidus temperature from 183°C for SnPb eutectic alloys to 217 - 221°C for the new alloys. As a result, the heat stress to the components, even in wave soldering, has increased considerably due to higher preheat and wave temperatures. Polypropylene capacitors are especially sensitive to heat (the melting point of polypropylene is 160 - 170°C). Wave soldering can be destructive, especially for mechanically small polypropylene capacitors (with lead spacing of 5 - 15 mm). Great care must be taken during soldering. The recommended solder profiles from KEMET should be used. Consult KEMET with any questions. In general, the wave soldering curve from IEC Publication 61760-1 Edition 2 serves as a solid guideline for successful soldering. See Figure 1.

Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above-recommended limits may result to degradation of or permanent damage to the capacitors.

Do not place the polypropylene capacitor through an adhesive curing oven to cure resin for surface mount components. Insert through-hole parts after curing surface mount parts. Consult KEMET to discuss the actual temperature profile in the oven, if through-hole components must pass through the adhesive curing process. A maximum two soldering cycles is recommended. Allow time for the capacitor surface temperature to return to normal temperature before performing the second soldering cycle.

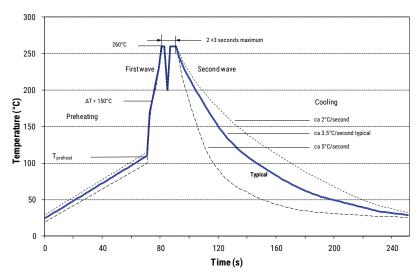
Manual Soldering Recommendations

Following is the recommendation for manual soldering with a soldering iron.



The soldering iron tip temperature should be set at 350°C (+10°C maximum), with the soldering duration not to exceed more than 3 seconds.

Wave Soldering Recommendations





Soldering Process cont'd

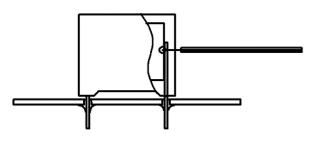
Wave Soldering Recommendations cont'd

1. The table indicates the maximum set-up temperature of the soldering process.

Dielectric		imum Pre emperatu	Maximum Peak Soldering Temperature		
Film Material	Capacitor Pitch ≤ 10 mm	Capacitor Pitch = 15 mm	Capacitor Pitch > 15 mm	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm
Polyester	130°C	130°C	130°C	270°C	270°C
Polypropylene	100°C	110°C	130°C	260°C	270°C
Paper	130°C	130°C	140°C	270°C	270°C
Polyphenylene Sulphide	150°C	150°C	160°C	270°C	270°C

2. The maximum temperature measured inside the capacitor: set the temperature so that the maximum temperature inside the element is below the limit.

Dielectric Film Material	Maximum Temperature Measured Inside the Element
Polyester	160°C
Polypropylene	110°C
Paper	160°C
Polyphenylene Sulphide	160°C



Temperature monitored inside the capacitor.

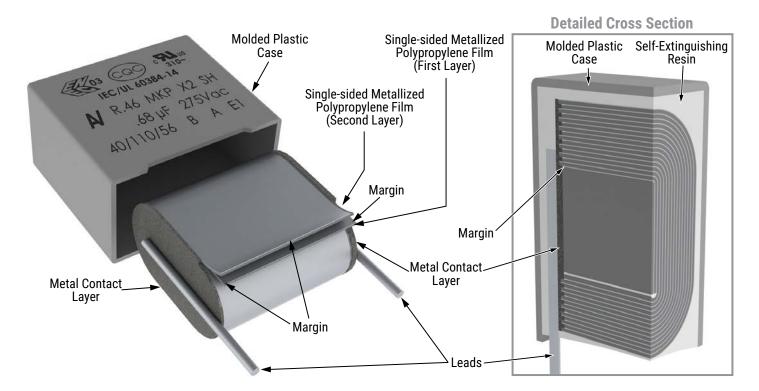
Selective Soldering Recommendations

Selective dip soldering is a variation of reflow soldering. In this method, the printed circuit board with through-hole components to be soldered is preheated and transported over the solder bath as it is in normal flow soldering, without touching the solder. When the board is over the bath, it is stopped. Pre-designed solder pots are lifted from the bath with molten solder, only at the places of the selected components, and pressed against the lower surface of the board to solder the components.

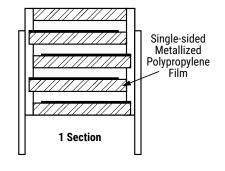
The temperature profile for selective soldering is similar to the double wave flow soldering outlined in this document. **However, instead of two baths, there is only one with a time from 3 – 10 seconds.** In selective soldering, the risk of overheating is greater than in double wave flow soldering, and great care must be taken so that the parts do not overheat.



Construction



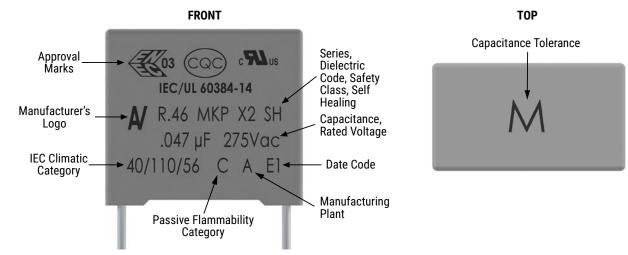
Winding Scheme



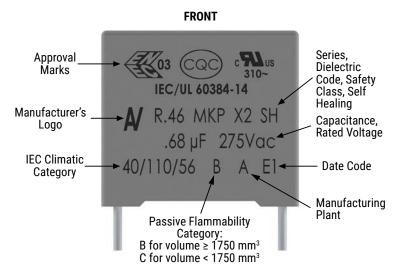


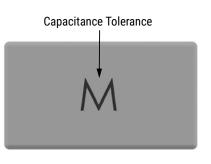
Marking

Lead Spacing 10 mm



Lead Spacing 15 mm, 22.5 mm (small case sizes)

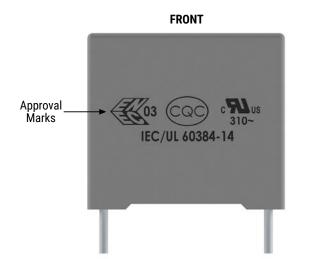


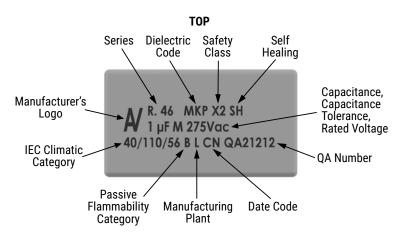


TOP



Marking cont'd





Man	Manufacturing Date Code (IEC-60062)					
Y = Year, Z = Month						
Year	Code	Month	Code			
2000	М	January	1			
2001	N	February	2			
2002	Р	March	3			
2003	R	April	4			
2004	S	May	5			
2005	Т	June	6			
2006	U	July	7			
2007	V	August	8			
2008	W	September	9			
2009	Х	October	0			
2010	A	November	Ν			
2011	В	December	D			
2012	С					
2013	D					
2014	E					
2015	F					
2016	Н					
2017	J					
2018	К					
2019	L					
2020	М					



Packaging Quantities

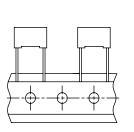
Lead Spacing (mm)	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo Taped
	4	9	13	2,000	1,800	750	1,500	1,000
10	5	11	13	1,300	1,500	600	1,250	800
	6	12	13	1,000	1,200	500	1,000	680
	-	44	10	0.000	1 000	(00	4.050	
	5	11	18	2,000	1,000	600	1,250	800
	6	12	18	1,750	900	500	1,000	680
	6	17.5	18	1,000	700	500	1,000	680
	7.5	13.5	18	1,000	700	350	800	500
15	7.5	18.5	18	900	500	-	800	500
15	8.5	14.5	18	1,000	500	300	700	440
	9	12.5	18	1,000	520	270	650	410
	10	16	18	750	500	300	600	380
	11	19	18	450	350	-	500	340
	13	12	18	750	490	200	480	280
		45	06.5	0.05	500		700	464
	6	15	26.5	805	500		700	464
22.5	7	16	26.5	700	500	_	550	380
-	10	18.5	26.5	396	300	-	350	235
	11	20	26.5	360	250	-	350	217
	9	17	32	816	408	_	450	_
	11	20	32	560	336		350	_
	13	22	32	480	288		300	_
27.5	13	25	32	480	288		-	_
2/10	14	28	32	352	176		_	_
	18	33	32	256	128	_	_	_
	22	37	32	168	112	_	_	_
	11	22	41.5	420	252	-	-	-
	13	24	41.5	360	216	-	-	-
	16	28.5	41.5	216	108	-	-	-
37.5	19	32	41.5	192	96	-	-	-
	20	40	41.5	126	84	-	-	-
	24	44	41.5	108	72	-	-	-
	30	45	41.5	90	60	_	-	_



Lead Taping & Packaging (IEC 60286-2)



Figure 2 Lead Spacing 15 mm



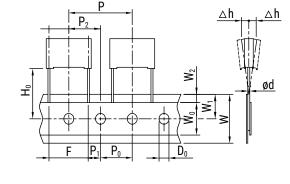
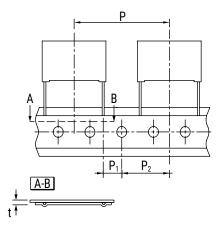


Figure 3 Lead Spacing 22.5 – 27.5 mm



Taping Specification

Description		Dimensions (mm)				
	Symbol	Lead Space				
Description		10	15	22.5	27.5	Tol.
		Fig. 1	Fig. 2	Fig. 3	Fig. 3	
Lead wire diameter	d	0.6	0.6-0.8	0.8	0.8	±0.05
Taping lead space	Р	25.4	25.4	38.1	38.1	±1
Feed hole lead space *	P ₀	12.7	12.7	12.7	12.7	±0.2 **
Centering of the lead wire	P ₁	7.7	5.2	7.8	5.3	±0.7
Centering of the body	P ₂	12.7	12.7	19.05	19.05	±1.3
Lead spacing (pitch) ***	F	10	15	22.5	27.5	+0.6/-0.1
Component alignment	Δh	0	0	0	0	±2
Height of component from tape center	H ₀ ****	18.5	18.5	18.5	18.5	±0.5
Carrier tape width	W	18	18	18	18	+1/-0.5
Hold down tape width	W ₀	9	10	10	10	Minimum
Hole position	W ₁	9	9	9	9	±0.5
Hold down tape position	W ₂	3	3	3	3	Maximum
Feed hole diameter	D ₀	4	4	4	4	±0.2
Total tape thickness	t	0.7	0.7	0.7	0.7	±0.2

* 15 mm also available

** Maximum of 1 mm on 20 lead spaces

*** Pitches 15 mm and 10 mm taped to 7.5 mm (crimped leads) available upon request

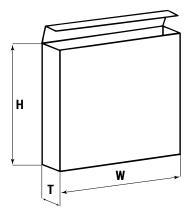
**** $H_0 = 16.5 \text{ mm}$ is available upon request



Lead Taping & Packaging (IEC 60286-2) cont'd

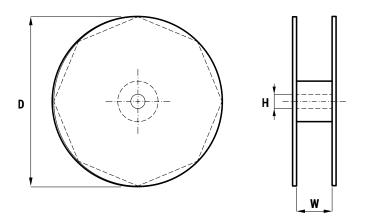
Ammo Specifications

Dimensions (mm)					
Н	W	т			
360	340	59			



Reel Specifications

Reel Size	Dimensions (mm)			
Reel Size	D	Н	W	
Standard	355	30	55 Maximum	
Large	500	25		





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