Overview

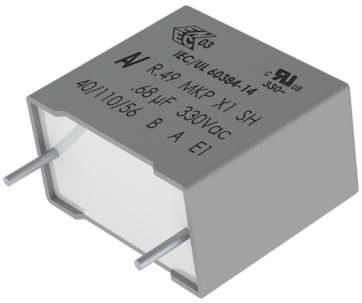
The R49 is constructed of metallized polypropylene film encapsulated with self-extinguishing resin in a box of material meeting the requirements of UL 94 V–0.

Applications

For use as electromagnetic interference, (EMI) suppression filter in across-the-line applications requires X1 safety classification. Intended for the use in situations where exposure to shock in the event of capacitor failure is not possible. Not for use in "series with mains" type applications. X1 classified capacitors are only for the use in a permanently connected apparatus with a connection to mains, which cannot be loosened without the use of a tool.

Benefits

- Approvals: ENEC, UL, cUL
- Class X1 (IEC 60384-14)
- Rated voltage: 330 VAC 50/60 Hz
- Capacitance range: 0.047 – 6.8 µF
- Lead spacing: 15.0 – 37.5 mm
- Capacitance tolerance: ±20%, ±10%
- Climatic category: 40/110/56, IEC 60068–1
- Tape and 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



Part Number System

R49	A	N	3150	00	B1	M
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Lead and Packaging Code	Internal Use	Capacitance Tolerance
X1, Metallized Polypropylene	A = 330	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	A1 A2 A3 B1 B2	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
10, 15, 22.5	**Standard Lead and Packaging Options**		
	Bulk (Bag) – Short Leads	4 +2/−0	00
	Ammo Pack	H_0= 18.5 ±0.5	DQ
	Other Lead and Packaging Options		
	Tape & Reel (Large Reel)	H_0= 18.5 ±0.5	CK
	Bulk (Bag) – Short Leads	3.5 +0.5/−0	JB
	Bulk (Bag) – Short Leads	4.0 +0.5/−0	JE
	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
27.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/−0	00
	Tape & Reel (Large Reel)	H_0= 18.5 ±0.5	CK[1]
	Other Lead and Packaging Options		
	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
37.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/−0	00
	Other Lead and Packaging Options		
	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

[1] *Not for all sizes, see "Packaging Quantities" table*

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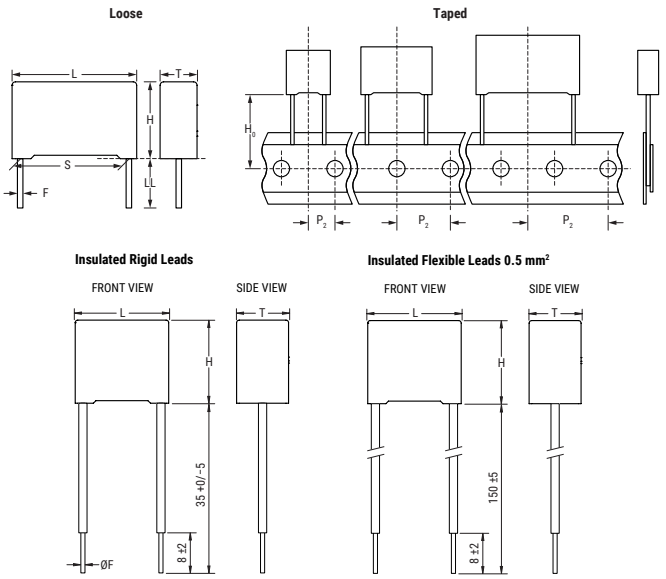
Dimensions – Millimeters



S		T		H		L		F	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
15.0	±0.4	5.0	+0.2/-0.5	11.0	+0.1/-0.5	18.0	+0.3/-0.5	0.6	±0.05
15.0	±0.4	6.0	+0.2/-0.5	12.0	+0.1/-0.5	18.0	+0.3/-0.5	0.6	±0.05
15.0	±0.4	6.0	+0.2/-0.5	17.5	+0.1/-0.5	18.0	+0.3/-0.5	0.6	±0.05
15.0	±0.4	8.5	+0.2/-0.5	14.5	+0.1/-0.5	18.0	+0.5/-0.5	0.6	±0.05
15.0	±0.4	10.0	+0.2/-0.5	16.0	+0.1/-0.5	18.0	+0.5/-0.5	0.8	±0.05
15.0	±0.4	11.0	+0.2/-0.5	19.0	+0.1/-0.5	18.0	+0.5/-0.5	0.8	±0.05
22.5	±0.4	6.0	+0.2/-0.5	15.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
22.5	±0.4	7.0	+0.2/-0.5	16.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
22.5	±0.4	8.5	+0.2/-0.5	17.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
22.5	±0.4	10.0	+0.2/-0.5	18.5	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
22.5	±0.4	13.0	+0.2/-0.5	22.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
27.5	±0.4	9.0	+0.2/-0.7	17.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
27.5	±0.4	11.0	+0.2/-0.7	20.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
27.5	±0.4	13.0	+0.2/-0.7	22.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
27.5	±0.4	13.0	+0.2/-0.7	25.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
27.5	±0.4	14.0	+0.2/-0.7	28.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
27.5	±0.4	18.0	+0.2/-0.7	33.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
27.5	±0.4	22.0	+0.2/-0.7	37.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
37.5	±0.4	11.0	+0.3/-0.7	22.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
37.5	±0.4	13.0	+0.3/-0.7	24.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
37.5	±0.4	16.0	+0.3/-0.7	28.5	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
37.5	±0.4	19.0	+0.3/-0.7	32.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
37.5	±0.4	30.0	+0.3/-0.7	45.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
Note: See Ordering Options Table for lead length (LL/H_0) options.									

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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_R)	330 VAC (50/60 Hz)
Recommended DC Voltage	800 VDC
Capacitance Range	0.047 – 6.8 µF
Capacitance Values	E6 series (IEC 60063)
Capacitance Tolerance	±10%, ±20%
Operating Temperature Range	−40° to +110°C
Rated Temperature	110°C
Climatic Category	40/110/56 IEC 60068-1
Storage Conditions	Storage time: ≤ 24 months from the date marked on the label package
	Average relative humidity per year ≤ 70%
	RH ≤ 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
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. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.

Insulation Resistance	Measured at +25°C ±5°C, according to IEC 60384–2			
	Minimum Values Between Terminals			
	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)*

** Typical value*

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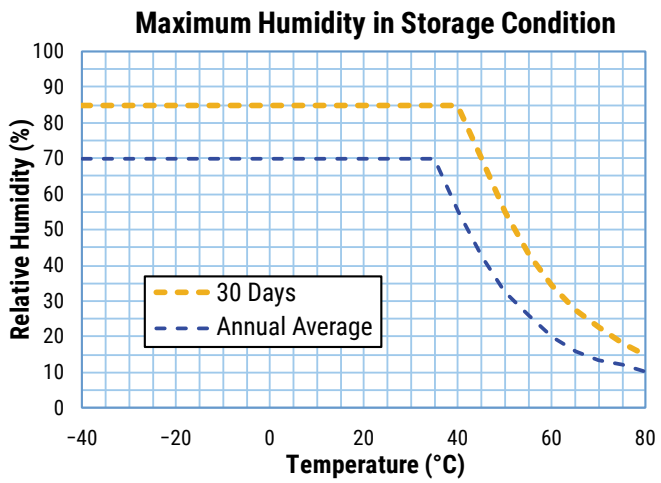
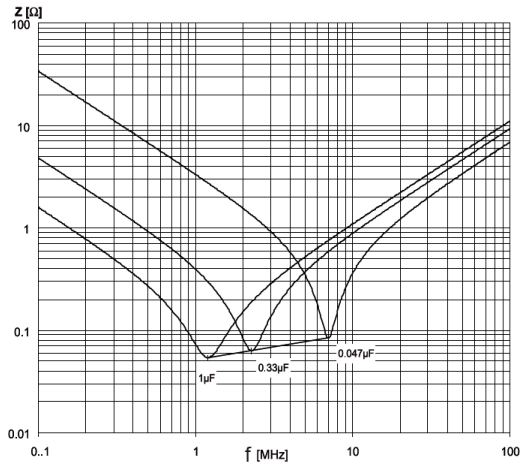
Performance Characteristics cont.



Impedance Graph



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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/s^2
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 4 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
Biased Humidity	IEC 60384-14:2023 Edition 5	+40°C and 93% RH, Rated Voltage, 21 days

Approvals

Certification Body	Mark	Specification	File Number
IMQ S.p.A.		EN/IEC 60384-14	CA08.00030
UL		UL 60384-14 and CAN/CSA E60384-14 (330 VAC)	E97797

Environmental Compliance

All KEMET EMI capacitors are RoHS Compliant.

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Table 1 – Ratings & Part Number Reference

Capacitance Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	KEMET Part Number	Customer Part Number
	T	H	L				
0.047	5.0	11.0	18.0	15.0	500	49AI2470(1)B1(2)	R49AI2470(1)B1(2)
0.068	6.0	12.0	18.0	15.0	500	49AI2680(1)B1(2)	R49AI2680(1)B1(2)
0.068	6.0	17.5	18.0	15.0	500	49AI2680(1)A2(2)	R49AI2680(1)A2(2)
0.10	6.0	17.5	18.0	15.0	500	49AI3100(1)A2(2)	R49AI3100(1)A2(2)
0.15	8.5	14.5	18.0	15.0	500	49AI3150(1)B1(3)	R49AI3150(1)B1(3)
0.22	10.0	16.0	18.0	15.0	500	49AI3220(1)B2(3)	R49AI3220(1)B2(3)
0.22	11.0	19.0	18.0	15.0	500	49AI3220(1)B1(2)	R49AI3220(1)B1(2)
0.15	6.0	15.0	26.5	22.5	400	49AN3150(1)B1(2)	R49AN3150(1)B1(2)
0.22	7.0	16.0	26.5	22.5	400	49AN3220(1)B1(2)	R49AN3220(1)B1(2)
0.33	8.5	17.0	26.5	22.5	400	49AN3330(1)B1(3)	R49AN3330(1)B1(3)
0.47	10.0	18.5	26.5	22.5	400	49AN3470(1)B1(3)	R49AN3470(1)B1(3)
0.68	13.0	22.0	26.5	22.5	400	49AN3680(1)B1(3)	R49AN3680(1)B1(3)
0.33	9.0	17.0	32.0	27.5	200	49AR3330(1)A1(2)	R49AR3330(1)A1(2)
0.47	11.0	20.0	32.0	27.5	200	49AR3470(1)A1(2)	R49AR3470(1)A1(2)
0.68	11.0	20.0	32.0	27.5	200	49AR3680(1)B1(2)	R49AR3680(1)B1(2)
0.68	13.0	22.0	32.0	27.5	200	49AR3680(1)A1(2)	R49AR3680(1)A1(2)
1.0	13.0	25.0	32.0	27.5	200	49AR4100(1)B1(2)	R49AR4100(1)B1(2)
1.0	14.0	28.0	32.0	27.5	200	49AR4100(1)A1(2)	R49AR4100(1)A1(2)
1.5	14.0	28.0	32.0	27.5	200	49AR4150(1)B1(2)	R49AR4150(1)B1(2)
1.5	18.0	33.0	32.0	27.5	200	49AR4150(1)A1(2)	R49AR4150(1)A1(2)
2.2	18.0	33.0	32.0	27.5	200	49AR4220(1)B1(2)	R49AR4220(1)B1(2)
2.2	22.0	37.0	32.0	27.5	200	49AR4220(1)A1(2)	R49AR4220(1)A1(2)
3.3	22.0	37.0	32.0	27.5	200	49AR4330(1)B1(2)	R49AR4330(1)B1(2)
0.68	11.0	22.0	41.5	37.5	100	49AW3680(1)B1(2)	R49AW3680(1)B1(2)
1.0	11.0	22.0	41.5	37.5	100	49AW4100(1)B1(2)	R49AW4100(1)B1(2)
1.5	13.0	24.0	41.5	37.5	100	49AW4150(1)B1(2)	R49AW4150(1)B1(2)
2.2	16.0	28.5	41.5	37.5	100	49AW4220(1)B1(2)	R49AW4220(1)B1(2)
3.3	19.0	32.0	41.5	37.5	100	49AW4330(1)B1(2)	R49AW4330(1)B1(2)
4.7	20.0	40.0	41.5	37.5	100	49AW4470(1)B1(2)	R49AW4470(1)B1(2)
6.8	30.0	45.0	41.5	37.5	100	49AW4680(1)B1(2)	R49AW4680(1)B1(2)
Capacitance Value (µF)	**T (mm)**	**H (mm)**	**L (mm)**	**Lead Spacing (S)**	**dV/dt (V/µs)**	**KEMET Part Number**	**Customer Part Number**

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) M = ±20%, K = ±10%
(3) M = ±20% (only available tolerance).

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Soldering Process

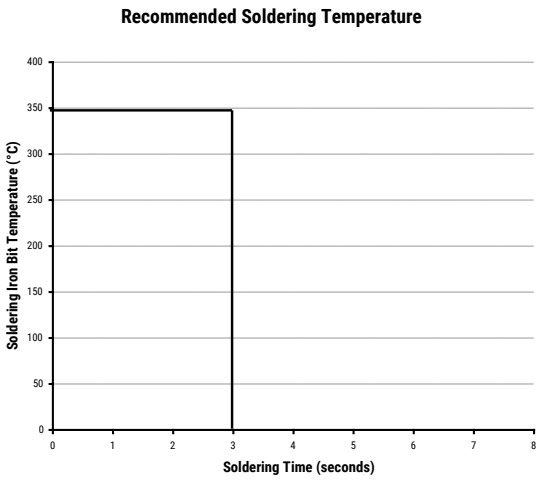
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 – 221°C for the new alloys. As a result, the heat stress to the components, even in wave soldering, has increased considerably due to higher pre-heat 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 mm to 15 mm), and great care has to be taken during soldering. The recommended solder profiles from KEMET should be used. Please 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. Please see Figure 1.

Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above the recommended limits may result to degradation 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 the curing of 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. Please allow time for the capacitor surface temperature to return to a normal temperature before the second soldering cycle.

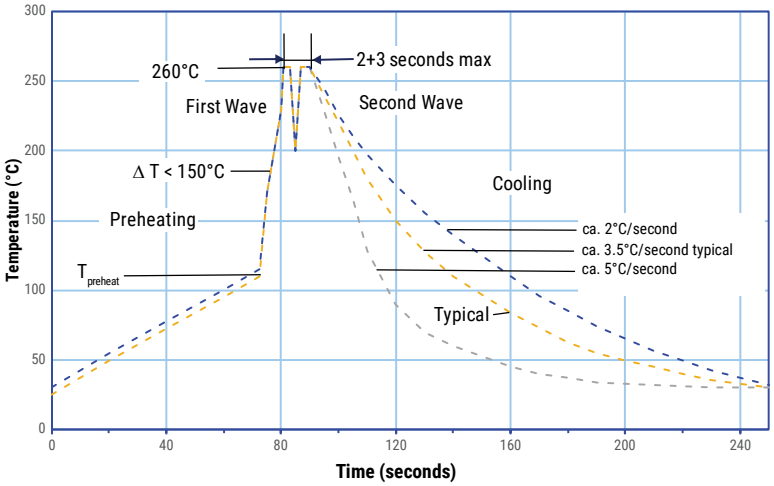
Manual Soldering Recommendations

The 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



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Soldering Process cont.

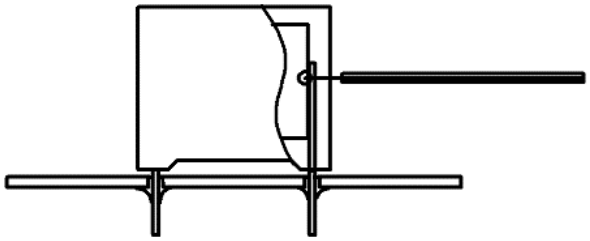
Wave Soldering Recommendations cont.

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

Dielectric Film Material	Maximum Preheat Temperature		Maximum Peak Soldering Temperature	
	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm
Polyester	130°C	130°C	270°C	270°C
Polypropylene	110°C	130°C	260°C	270°C
Paper	130°C	140°C	270°C	270°C
Polyphenylene Sulphide	150°C	160°C	270°C	270°C

2. The maximum temperature measured inside the capacitor:
Set the temperature so that inside the element the maximum temperature 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 in normal flow soldering without touching the solder. When the board is over the bath, it is stopped and 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 bath with a time from 3 to 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 are not overheated.

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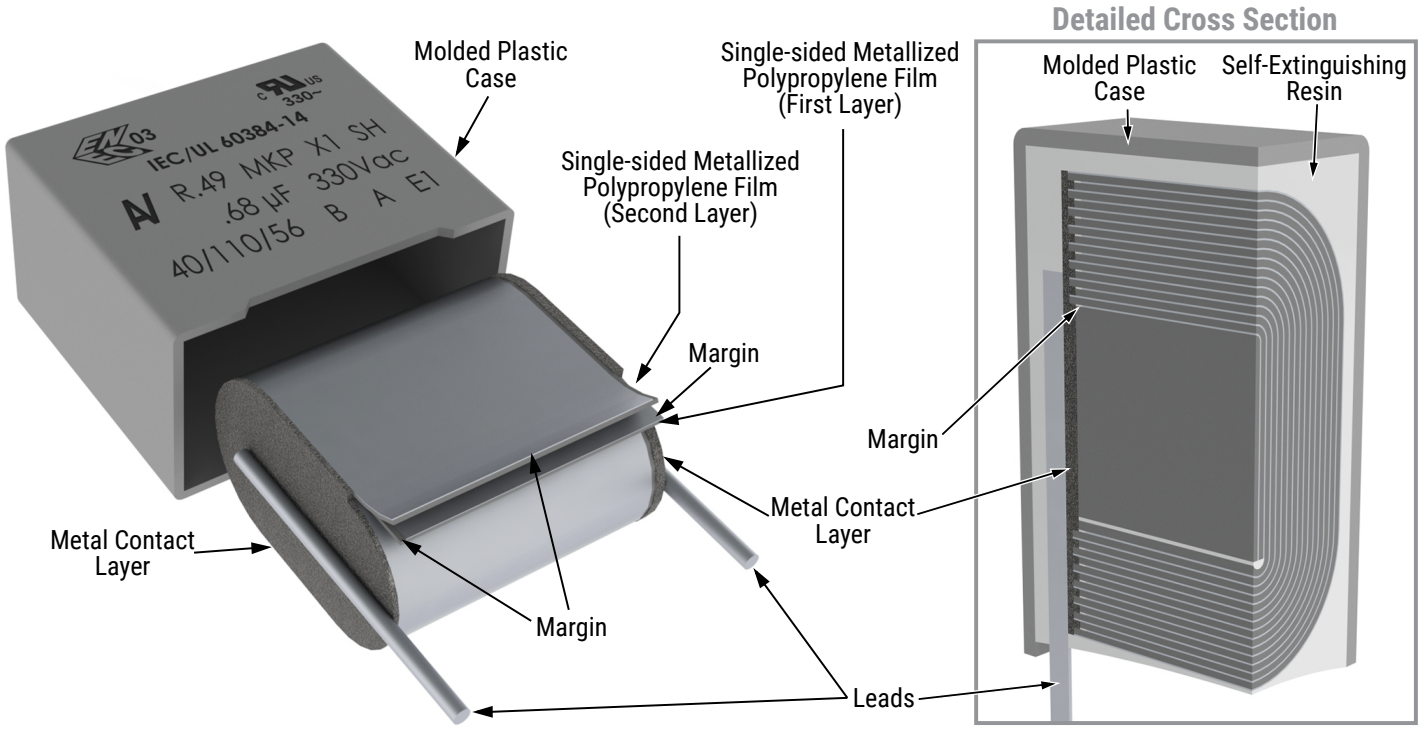
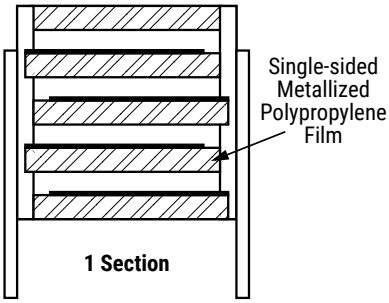
Construction



Winding Scheme



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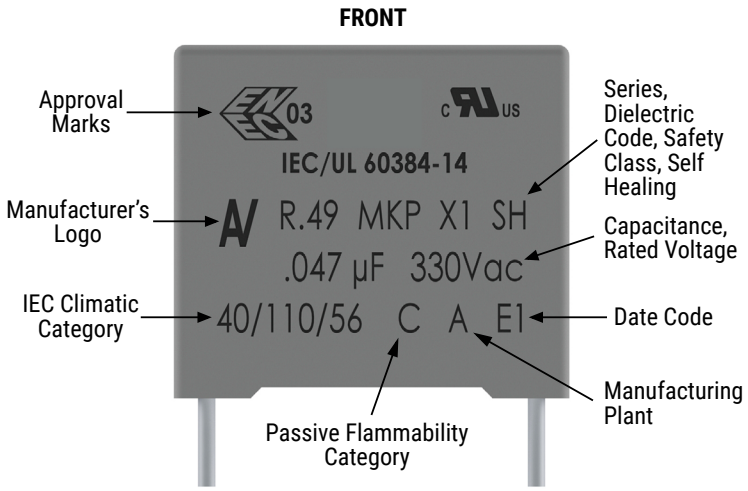
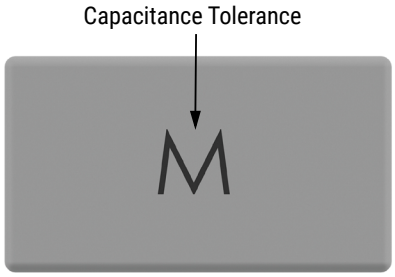
Marking

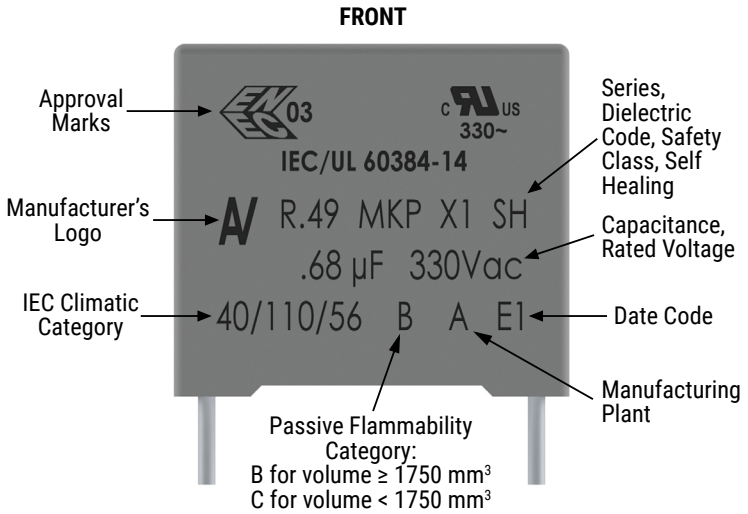
Lead Spacing 10 mm

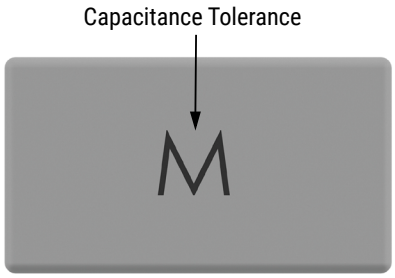




NOTE: Hot imprinting with or without color or ink jet or laser marking

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





NOTE: Hot imprinting with or without color or ink jet or laser marking

** Differences caused by technology (clichee, laser or ink jet) and production line*

Slight change in the layout can be possible but this does not affect the content of the information of the current marking.
This change will be achieved without impact to product form, fit or function, as the products are equivalent with respect to physical, mechanical, quality and reliability characteristics

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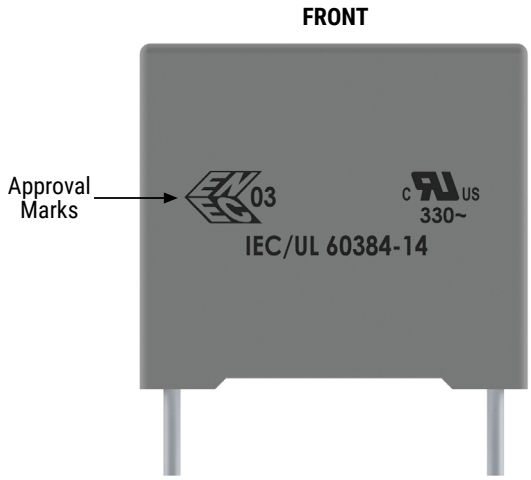
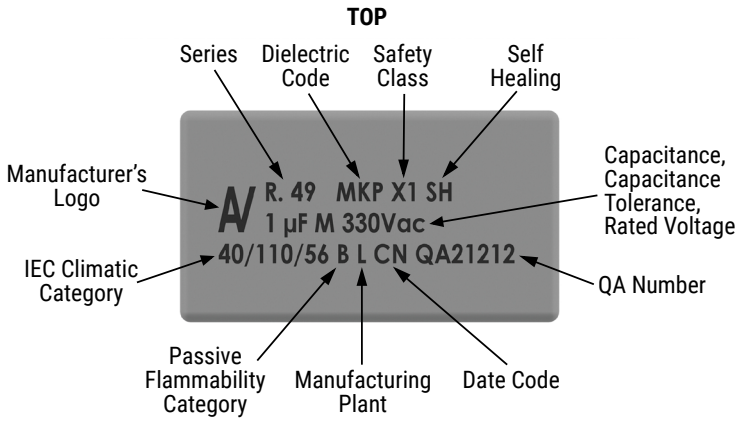
Marking cont.

Lead Spacing 22.5 and 27.5 mm (alternatives*) and 37.5 mm





** Differences caused by technology (clichee, laser or ink jet) and production line*

Slight change in the layout can be possible but this does not affect the content of the information of the current marking.
This change will be achieved without impact to product form, fit or function, as the products are equivalent with respect to physical, mechanical, quality and reliability characteristics

Manufacturing Date Code (IEC 60062)			
Year	**Code**	**Month**	**Code**
2020	M	January	1
2021	N	February	2
2022	P	March	3
2023	R	April	4
2024	S	May	5
2025	T	June	6
2026	U	July	7
2027	V	August	8
2028	W	September	9
2029	X	October	O
2030	A	November	N
2031	B	December	D
2032	C		
2033	D		
2034	E		
2035	F		
2036	H		
2037	J		
2038	K		
2039	L		
2040	M		

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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
15	5.0	11.0	18.0	2,000	1,000	600	1,250	800
	6.0	12.0	18.0	1,750	900	500	1,000	680
	6.0	17.5	18.0	1,000	700	500	1,000	680
	8.5	14.5	18.0	1,000	500	300	700	440
	10.0	16.0	18.0	750	500	300	600	380
	11.0	19.0	18.0	450	350	-	500	340
	13.0	12.0	18.0	750	490	200	480	280
22.5	6.0	15.0	26.5	805	500	–	700	464
	7.0	16.0	26.5	700	500	–	550	380
	8.5	17.0	26.5	468	300	–	450	280
	10.0	18.5	26.5	396	300	–	350	235
	13.0	22.0	26.5	300	200	–	300	–
27.5	9.0	17.0	32.0	816	408	–	450	–
	11.0	20.0	32.0	560	336	–	350	–
	13.0	22.0	32.0	480	288	–	300	–
	13.0	25.0	32.0	480	288	–	–	–
	14.0	28.0	32.0	352	176	–	–	–
	18.0	33.0	32.0	256	128	–	–	–
	22.0	37.0	32.0	168	112	–	–	–
37.5	11.0	22.0	41.5	420	252	–	–	–
	13.0	24.0	41.5	360	216	–	–	–
	16.0	28.5	41.5	216	108	–	–	–
	19.0	32.0	41.5	192	96	–	–	–
	30.0	45.0	41.5	90	60	–	–	–

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Lead Taping & Packaging (IEC 60286–2)

Figure 1
Lead Spacing 10 mm

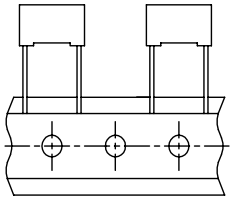


Figure 2
Lead Spacing 15 mm

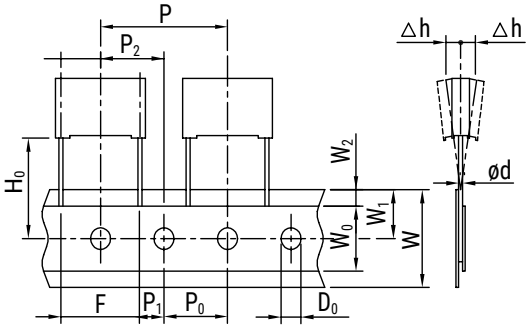
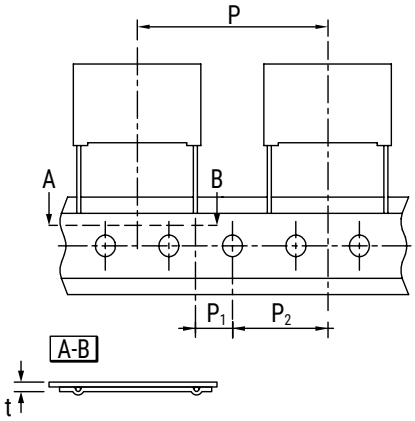


Figure 3
Lead Spacing 22.5 – 27.5 mm



Taping Specification

Description	Symbol	Dimensions (mm)				
		Lead Space				Tol.
		10	15	22.5	27.5	
		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	P	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 mm is available upon request*

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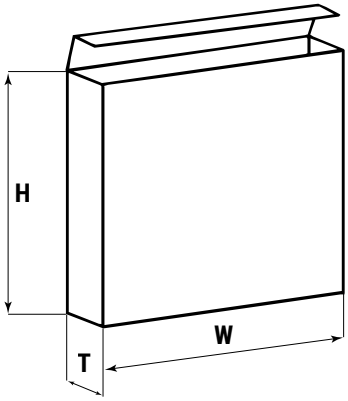
Lead Taping & Packaging (IEC 60286–2) cont.

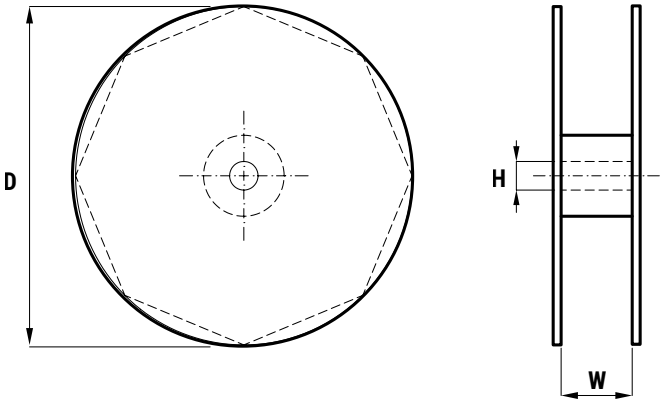
Ammo Specifications

Dimensions (mm)		
H	W	T
360	340	59



Reel Specifications

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



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