R74, 125°C Single Metallized Polypropylene Film, Radial, AC Applications (Automotive Grade)



Overview

The R74 125°C is constructed of metallized polypropylene film with radial leads of tinned wire. The radial leads are electrically welded to the metal layer on the ends of the capacitor winding. The capacitor is encapsulated in a self-extinguishing solvent resistant plastic case, with thermosetting resin material meeting UL 94 V–0 requirements. Two different winding constructions are used depending on voltage parameters. Please see Performance Characteristics for more information.

Automotive grade devices meet the demanding Automotive Electronics Council's AEC-Q200 qualification requirements.

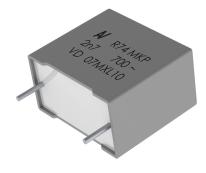
Applications

Typical applications include electronic lighting such as automotive headlamps and ballasts, as well as pulse applications with high AC voltage and high current in combination with a high ambient temperature.

Not suitable for across-the-line application (see Suppressor Capacitors).

Benefits

- Voltage range: 500 700 VAC
- Capacitance range: 680 pF 0.1 μ F
- Lead Spacing: 15.0 22.5 mm
- Capacitance tolerance: ±5%, ±10%
- Climatic category: 55/125/56 IEC 60068-1
- Operating temperature range of -55°C to +125°C
- · RoHS compliance and lead-free terminations
- Tape & Reel packaging in accordance with IEC 60286-2
- Self-healing
- Automotive (AEC-Q200) grades available



Part Number System

R74	5	F	1100	AA	HO	J
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Metallized Polypropylene	5 = 500 7 = 700	l = 15 N = 22.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	H0 H1 H3 (Hx = 125°C)	J = ±5% K = ±10%

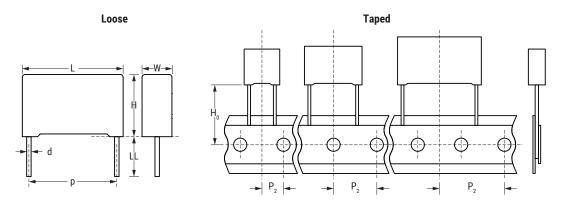


Ordering Options Table

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	AA
	Ammo Pack	$H_0 = 18.5 \pm 0.5$	DQ
	Other Lead and Packaging Options		
15	Tape & Reel (Standard Reel Ø 355 mm)	H ₀ = 18.5 ±0.5	GY
	Tape & Reel (Large Reel Ø 500 mm)	$H_0 = 18.5 \pm 0.5$	СК
22.5	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



Dimensions – Millimeters



I	C	١	V	1	H	I	L	d	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
15.0	±0.4	4.0	+0.2	10.0	+0.1	18.0	+0.3	0.8	±0.05
15.0	±0.4	5.0	+0.2	11.0	+0.1	18.0	+0.3	0.8	±0.05
15.0	±0.4	6.0	+0.2	12.0	+0.1	18.0	+0.3	0.8	±0.05
15.0	±0.4	7.5	+0.2	13.5	+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	0.8	±0.05
15.0	±0.4	9.0	+0.2	12.5	+0.1	18.0	+0.5	0.8	±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	8.5	+0.2	17.0	+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
22.5	±0.4	13.0	+0.2	22.0	+0.1	26.5	+0.3	0.8	±0.05
		Note: Se	e Ordering O	ptions Tabl	e for lead len	igth (LL/Ho)	options.		

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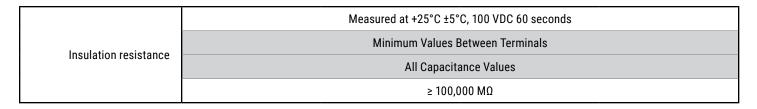
Performance Characteristics

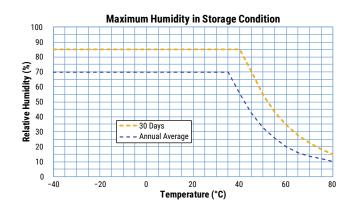
Dielectric	Polypropylene film							
Plates	Metal layer deposited by evaporation under vacum							
Winding	Non-inductive type	Non-inductive type						
Leads	Tinned wire							
Protection	Plastic case, thermosetting UL94.	g resin filled. Box material is	solvent resistant and flame re	etardant according to				
Related documents	IEC 60384-16, IEC 60384-							
Rated voltage $V_{_{R}}$	500 VAC, 1,600 VDC (2 sec 700 VAC, 2,000 VDC (3 sec							
Capacitance range (µF)	0.001 – 0.1 (2 sections) 0.00068 – 0.068 (3 section	ns)						
Capacitance values	E12 series (IEC 60063) mea	asured at 1 kHz and +20 ±1°C	;					
Capacitance tolerance	±5%, ±10%							
Operating temperature range	-55°C to +125°C							
Rated temperature T_{R}	+105°C							
Voltage derating	Above +105°C DC and AC v	oltage derating is 1.25%/°C						
Climatic category	55/125/56 IEC 60068-1	55/125/56 IEC 60068-1						
	Storage time: ≤ 24 months	from the date marked on the	package label					
	Average relative humidity p	oer year ≤ 70%						
Storage conditions	RH ≤ 85% for 30 days rando	omly distributed throughout t	he year					
	Dew is absent							
	Temperature: -40 to 80°C	(see "Maximum Humidity in S	Storage Conditions" graph be	low)				
Test voltage		(between terminations) at +2						
Capacitance drift	Maximum 1% after a 2-year to 60%	r storage period at a tempera	ture of +10°C to +40°C and a	relative humidity of 40%				
Maximum pulse steepness	dV/dt according to Table 1. can be multiplied by the fac		than rated voltage (V < V _R), th	e specified dV/dt				
Temperature coefficient	-(200±100) ppm/°C at 1 kH	lz						
	Lead Spacing (mm)	15	22.5					
Self inductance (Lead length ~ 2 mm)	L (nH) ≈	10	16					
	Maximum 1 nH per 1 mm le	ead and capacitor length.						
	Measured at 25°C ±5°C							
	Frequency C ≤ 2.2 nF 2.2 nF < C ≤ 0.027 μF 0.027 μF < C							
Dissipation factor tan δ	1 kHz	0.01%	0.01%	0.04%				
	10 kHz	0.02%	0.02%	0.06%				
	100 kHz	0.03%	0.08%	0.25%				

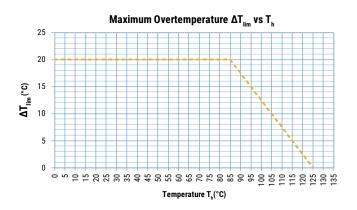
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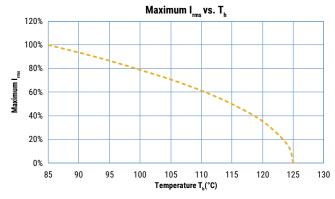


Performance Characteristics cont.









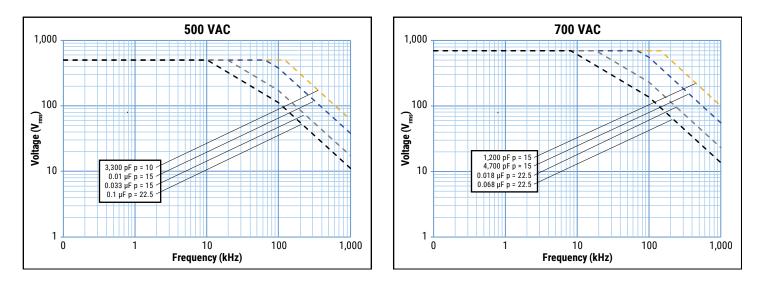
T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C.



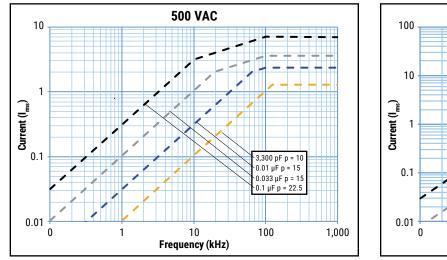
Qualification

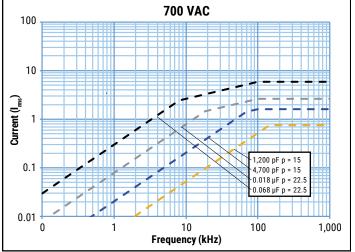
Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC-Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics Council and AEC-Q200, please visit their website at www.aecouncil.com.

Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/Th \leq 85°C)



Maximum Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/Th \leq 85°C)





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Environmental Test Data

Damp Heat, Steady State Test	Test Co	nditions:	Performances
	Temperature: Relative humidity (RH): Test duration:	+40°C ±2°C 93% ±2% 56 days	Δ C/C ≤ 2%, Δ tanδ ≤ 0.001 at 1 kHz IR after test ≥ 50% of initial limit
Endurance Test	Test Conditions		Performances
Test 1st	Temperature: Voltage applied: Test duration:	+125°C +0/-2°C 0.94 x V _R (AC) at 50 Hz 2,000 hours	Δ C/C ≤ 5%,
Test 2nd	Temperature: Voltage applied: Test duration:	+105°C ±2°C 1.25 x V _R (AC) at 50 Hz 2,000 hours	Δ tanδ ≤ 0.0015 at 1 kHz IR after test ≥ 50% of initial limit
Resistance to Soldering Heat Test	Test Co	nditions	Performances
	Solder bath temperature: Dipping time (with heat screen):	260°C ±5°C 10 seconds ±1 second	Δ C/C ≤ 1%, Δ tanδ ≤ 0.001 at 1 kHz IR after test ≥ initial limit

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Environmental Compliance

All KEMET pulse capacitors are RoHS Compliant.



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Table 1 – Ratings & Part Number Reference

VAC	VDC	Capacitance	Dime	nsions ii	n mm	Lead	dV/dt	Max K	KEMET Internal	Customer
VAC	VDC	Value (µF)	В	Н	L	Spacing (p)	(V/µs)	(V²/µs)́	Part Number	Part Number
500	1,600	0.0027	4.0	10.0	18.0	15.0	4,500	14,400,000	745I1270(1)H3(2)	R745I1270(1)H3(2)
500	1,600	0.0033	4.0	10.0	18.0	15.0	4,500	14,400,000	745I1330(1)H3(2)	R745I1330(1)H3(2)
500	1,600	0.0039	4.0	10.0	18.0	15.0	4,500	14,400,000	745I1390(1)H3(2)	R745I1390(1)H3(2)
500	1,600	0.0047	5.0	11.0	18.0	15.0	4,500	14,400,000	745I1470(1)H0(2)	R745I1470(1)H0(2)
500	1,600	0.0056	5.0	11.0	18.0	15.0	4,500	14,400,000	745I1560(1)H0(2)	R745I1560(1)H0(2)
500	1,600	0.0068	6.0	12.0	18.0	15.0	4,500	14,400,000	745I1680(1)H0(2)	R745I1680(1)H0(2)
500	1,600	0.0082	6.0	12.0	18.0	15.0	4,500	14,400,000	745I1820(1)H0(2)	R745I1820(1)H0(2)
500	1,600	0.010	6.0	12.0	18.0	15.0	4,500	14,400,000	745I2100(1)H0(2)	R745I2100(1)H0(2)
500	1,600	0.012	7.5	13.5	18.0	15.0	4,500	14,400,000	745I2120(1)H0(2)	R745I2120(1)H0(2)
500	1,600	0.015	7.5	13.5	18.0	15.0	4,500	14,400,000	745I2150(1)H0(2)	R745I2150(1)H0(2)
500	1,600	0.015	13.0	12.0	18.0	15.0	4,500	14,400,000	745I2150(1)H1(2)	R745I2150(1)H1(2)
500	1,600	0.018	8.5	14.5	18.0	15.0	4,500	14,400,000	745I2180(1)H0(2)	R745I2180(1)H0(2)
500	1,600	0.018	13.0	12.0	18.0	15.0	4,500	14,400,000	745I2180(1)H1(2)	R745I2180(1)H1(2)
500	1,600	0.022	10.0	16.0	18.0	15.0	4,500	14,400,000	745I2220(1)H0(2)	R745I2220(1)H0(2)
500	1,600	0.022	13.0	12.0	18.0	15.0	4,500	14,400,000	745I2220(1)H1(2)	R745I2220(1)H1(2)
500	1,600	0.027	10.0	16.0	18.0	15.0	4,500	14,400,000	745I2270(1)H0(2)	R745I2270(1)H0(2)
500	1,600	0.033	11.0	19.0	18.0	15.0	4,500	14,400,000	745I2330(1)H0(2)	R745I2330(1)H0(2)
500	1,600	0.018	6.0	15.0	26.5	22.5	1,200	3,840,000	745N2180(1)H0(2)	R745N2180(1)H0(2)
500	1,600	0.022	6.0	15.0	26.5	22.5	1,200	3,840,000	745N2220(1)H0(2)	R745N2220(1)H0(2)
500	1,600	0.027	7.0	16.0	26.5	22.5	1,200	3,840,000	745N2270(1)H0(2)	R745N2270(1)H0(2)
500	1,600	0.033	7.0	16.0	26.5	22.5	1,200	3,840,000	745N2330(1)H0(2)	R745N2330(1)H0(2)
500	1,600	0.039	8.5	17.0	26.5	22.5	1,200	3,840,000	745N2390(1)H0(2)	R745N2390(1)H0(2)
500	1,600	0.047	10.0	18.5	26.5	22.5	1,200	3,840,000	745N2470(1)H0(2)	R745N2470(1)H0(2)
500	1,600	0.056	10.0	18.5	26.5	22.5	1,200	3,840,000	745N2560(1)H0(2)	R745N2560(1)H0(2)
500	1,600	0.068	11.0	20.0	26.5	22.5	1,200	3,840,000	745N2680(1)H0(2)	R745N2680(1)H0(2)
500	1,600	0.082	13.0	22.0	26.5	22.5	1,200	3,840,000	745N2820(1)H0(2)	R745N2820(1)H0(2)
500	1,600	0.10	13.0	22.0	26.5	22.5	1,200	3,840,000	745N3100(1)H0(2)	R745N3100(1)H0(2)
700	2,000	0.00068	4.0	10.0	18.0	15.0	9,500	38,000,000	747I0680(1)H3(2)	R74710680(1)H3(2)
700	2,000	0.00082	4.0	10.0	18.0	15.0	9,500	38,000,000	747I0820(1)H3(2)	R747I0820(1)H3(2)
700	2,000	0.0010	4.0	10.0	18.0	15.0	9,500	38,000,000	747I1100(1)H3(2)	R747I1100(1)H3(2)
700	2,000	0.0012	4.0	10.0	18.0	15.0	9,500	38,000,000	747I1120(1)H3(2)	R747I1120(1)H3(2)
700	2,000	0.0013	4.0	10.0	18.0	15.0	9,500	38,000,000	747I1130(1)H3(2)	R747I1130(1)H3(2)
700	2,000	0.0018	4.0	10.0	18.0	15.0	9,500	38,000,000	747I1180(1)H3(2)	R747I1180(1)H3(2)
700	2,000	0.0022	4.0	10.0	18.0	15.0	9,500	38,000,000	747I1220(1)H3(2)	R747I1220(1)H3(2)
700	2,000	0.0025	4.0	10.0	18.0	15.0	9,500	38,000,000	747I1250(1)H3(2)	R747I1250(1)H3(2)
700	2,000	0.0027	5.0	11.0	18.0	15.0	9,500	38,000,000	747I1270(1)H0(2)	R747I1270(1)H0(2)
700	2,000	0.0033	5.0	11.0	18.0	15.0	9,500	38,000,000	747I1330(1)H0(2)	R747I1330(1)H0(2)
700	2,000	0.0036	6.0	12.0	18.0	15.0	9,500	38,000,000	747I1360(1)H0(2)	R747I1360(1)H0(2)
700	2,000	0.0039	6.0	12.0	18.0	15.0	9,500	38,000,000	747I1390(1)H0(2)	R747I1390(1)H0(2)
700	2,000	0.0043	6.0	12.0	18.0	15.0	9,500	38,000,000	747I1430(1)H0(2)	R747I1430(1)H0(2)
VAC	VDC	Capacitance Value (µF)	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Max K _o (V²/μs)	KEMET Intenal Part Number	Customer Part Number

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

(2) J = 5%, K = 10%.

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Table 1 – Ratings & Part Number Reference cont.

VAC	VDC	Capacitance	Dime	nsions iı		Lead	dV/dt	Max K _o	KEMET Internal	Customer
· · · · ·		Value (µF)	В	Н	L	Spacing (p)	(V/µs)	(V²/µs)́	Part Number	Part Number
700	2,000	0.0047	6.0	12.0	18.0	15.0	9,500	38,000,000	747I1470(1)H0(2)	R747I1470(1)H0(2)
700	2,000	0.0052	6.0	12.0	18.0	15.0	9,500	38,000,000	747I1520(1)H0(2)	R747I1520(1)H0(2)
700	2,000	0.0056	6.0	12.0	18.0	15.0	9,500	38,000,000	747I1560(1)H0(2)	R747I1560(1)H0(2)
700	2,000	0.0062	7.5	13.5	18.0	15.0	9,500	38,000,000	747I1620(1)H0(2)	R747I1620(1)H0(2)
700	2,000	0.0068	7.5	13.5	18.0	15.0	9,500	38,000,000	747I1680(1)H0(2)	R747I1680(1)H0(2)
700	2,000	0.0082	7.5	13.5	18.0	15.0	9,500	38,000,000	747I1820(1)H0(2)	R747I1820(1)H0(2)
700	2,000	0.0082	9.0	12.5	18.0	15.0	9,500	38,000,000	747I1820(1)H1(2)	R747I1820(1)H1(2)
700	2,000	0.010	8.5	14.5	18.0	15.0	9,500	38,000,000	747I2100(1)H0(2)	R747I2100(1)H0(2)
700	2,000	0.010	13.0	12.0	18.0	15.0	9,500	38,000,000	747I2100(1)H1(2)	R747I2100(1)H1(2)
700	2,000	0.012	10.0	16.0	18.0	15.0	9,500	38,000,000	747I2120(1)H0(2)	R747I2120(1)H0(2)
700	2,000	0.012	13.0	12.0	18.0	15.0	9,500	38,000,000	747I2120(1)H1(2)	R747I2120(1)H1(2)
700	2,000	0.015	10.0	16.0	18.0	15.0	9,500	38,000,000	747I2150(1)H0(2)	R747I2150(1)H0(2)
700	2,000	0.018	11.0	19.0	18.0	15.0	9,500	38,000,000	747I2180(1)H0(2)	R747I2180(1)H0(2)
700	2,000	0.0062	6.0	15.0	26.5	22.5	4,500	18,000,000	747N1620(1)H0(2)	R747N1620(1)H0(2)
700	2,000	0.0068	6.0	15.0	26.5	22.5	4,500	18,000,000	747N1680(1)H0(2)	R747N1680(1)H0(2)
700	2,000	0.0075	6.0	15.0	26.5	22.5	4,500	18,000,000	747N1750(1)H0(2)	R747N1750(1)H0(2)
700	2,000	0.0082	6.0	15.0	26.5	22.5	4,500	18,000,000	747N1820(1)H0(2)	R747N1820(1)H0(2)
700	2,000	0.010	6.0	15.0	26.5	22.5	4,500	18,000,000	747N2100(1)H0(2)	R747N2100(1)H0(2)
700	2,000	0.012	6.0	15.0	26.5	22.5	4,500	18,000,000	747N2120(1)H0(2)	R747N2120(1)H0(2)
700	2,000	0.015	6.0	15.0	26.5	22.5	4,500	18,000,000	747N2150(1)H0(2)	R747N2150(1)H0(2)
700	2,000	0.018	7.0	16.0	26.5	22.5	4,500	18,000,000	747N2180(1)H0(2)	R747N2180(1)H0(2)
700	2,000	0.022	8.5	17.0	26.5	22.5	4,500	18,000,000	747N2220(1)H0(2)	R747N2220(1)H0(2)
700	2,000	0.027	8.5	17.0	26.5	22.5	4,500	18,000,000	747N2270(1)H0(2)	R747N2270(1)H0(2)
700	2,000	0.033	10.0	18.5	26.5	22.5	4,500	18,000,000	747N2330(1)H0(2)	R747N2330(1)H0(2)
700	2,000	0.039	10.0	18.5	26.5	22.5	4,500	18,000,000	747N2390(1)H0(2)	R747N2390(1)H0(2)
700	2,000	0.047	11.0	20.0	26.5	22.5	4,500	18,000,000	747N2470(1)H0(2)	R747N2470(1)H0(2)
700	2,000	0.056	13.0	22.0	26.5	22.5	4,500	18,000,000	747N2560(1)H0(2)	R747N2560(1)H0(2)
700	2,000	0.062	13.0	22.0	26.5	22.5	4,500	18,000,000	747N2620(1)H0(2)	R747N2620(1)H0(2)
700	2,000	0.068	13.0	22.0	26.5	22.5	4,500	18,000,000	747N2680(1)H0(2)	R747N2680(1)H0(2)
VAC	VDC	Capacitance Value (µF)	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	Max K _o (V²/µs)	KEMET Intenal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options. (2) J = 5%, K = 10%.



Soldering Process

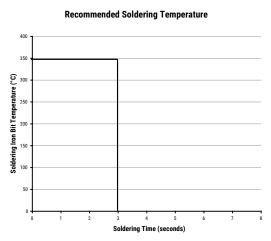
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as a primary solder. This has increased the liquidus temperature from that of 183° C for SnPb eutectic alloy to $217 - 221^{\circ}$ C for the new alloys. As a result, the heat stress to the components, 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 $160 - 170^{\circ}$ 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 recommended limits may result in 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.

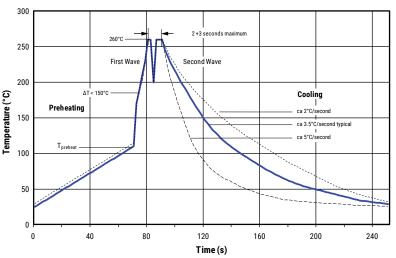
Manual Soldering Recommendations





The 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.

Wave Soldering Recommendations cont.

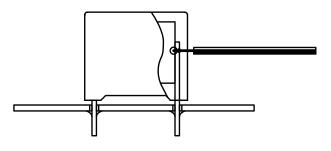
1. The table indicates the maximum set-up temperature of the soldering process Figure 1.

Dielectric Film		n Preheat erature	Maximum Peak Soldering Temperature		
Material	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.

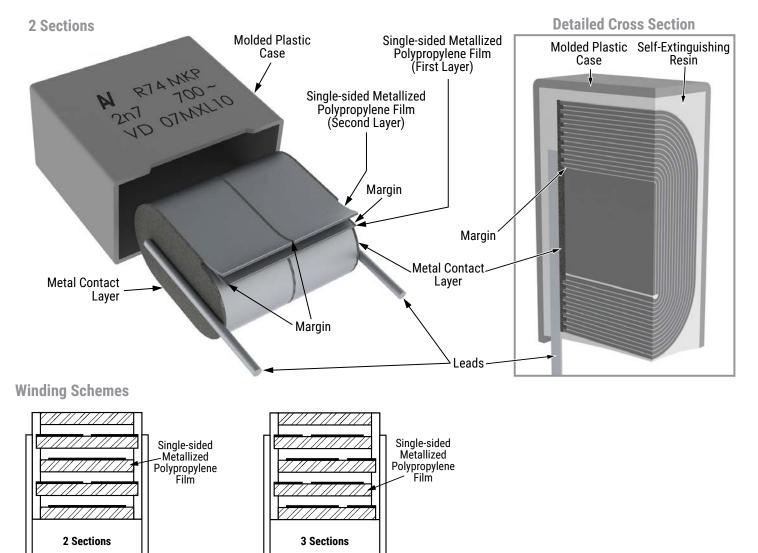
Selective Soldering Recommendations

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. Great care must be taken so that the parts are not overheated.

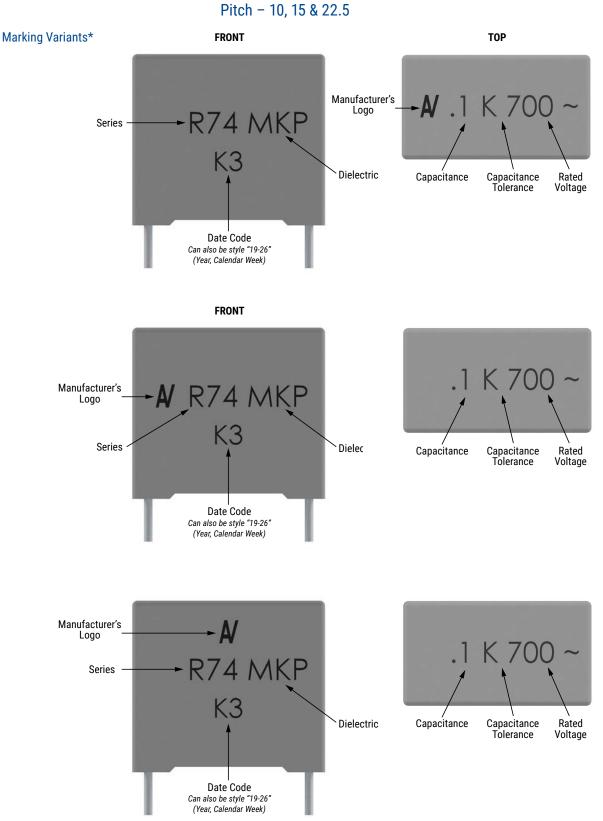


Construction





Marking

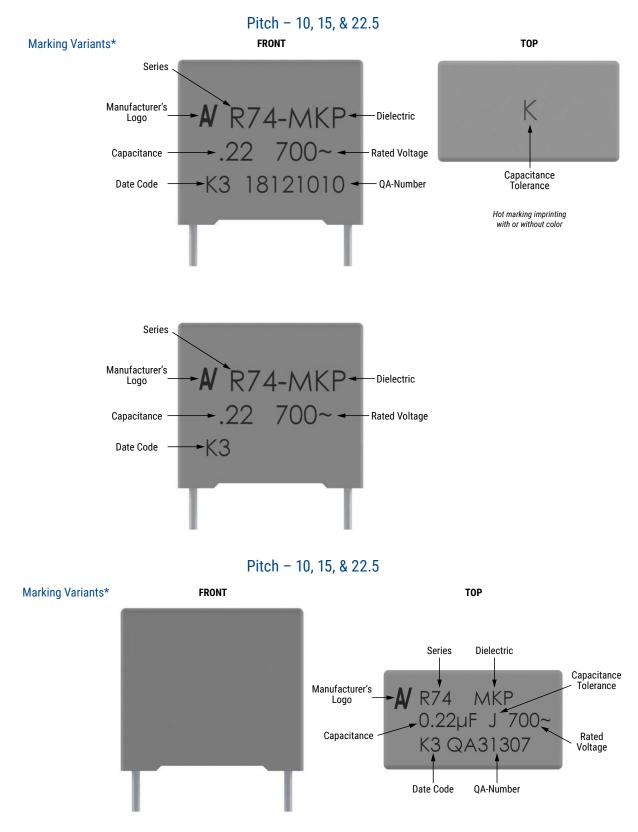


* Differences are caused by technology (Clichee or ink) and technic (production line)

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Marking cont.



* Differences are caused by technology (Clichee or ink) and technic (production line)

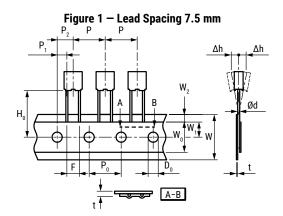


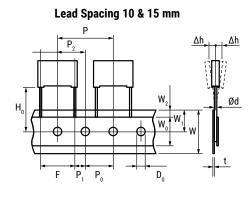
Packaging Quantities

Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bu Long	llk Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo Taped
options	Lead and	l Packaging	Code	AA - JB JE - JH	JM	40 - 50	GY	СК	DQ
	4.0	9.0	13.0	2,000	2,200	1,800	750	1,500	1,000
10	5.0	11.0	13.0	1,300	2,000	1,500	600	1,250	800
	6.0	12.0	13.0	1,000	1,800	1,200	500	1,000	680
	4.0	10.0	18.0	2,500	1,500	1,500	750	1,500	1,000
	5.0	11.0	18.0	2,000	1,250	1,000	600	1,250	800
	6.0	12.0	18.0	1,750	1,000	900	500	1,000	680
	7.5	13.5	18.0	1,000	800	700	350	800	500
15	8.5	14.5	18.0	1,000	650	500	300	700	440
	9.0	12.5	18.0	1,000	700	520	270	650	410
	10.0	16.0	18.0	750	550	500	270	600	380
	11.0	19.0	18.0	450	400	350	270	500	340
	13.0	12.0	18.0	750	520	490	200	480	280
	6.0	15.0	26.5	805	450	500	300	700	464
	7.0	16.0	26.5	700	450	500	250	550	380
22.5	8.5	17.0	26.5	468	350	300	250	450	280
22.5	10.0	18.5	26.5	396	350	300	160	350	235
	11.0	20.0	26.5	360	200	250	190	350	217
	13.0	22.0	26.5	300	150	200	130	300	-

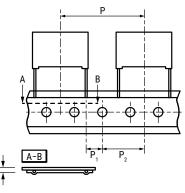


Lead Taping & Packaging (IEC 60286-2)





Lead Spacing 22.5 & 27.5 mm



Taping Specification

		Dimensions (mm)						
Description	Symbol							
Becomption	•,•	7.5	10.0	15.0	22.5	27.5	Tolerance	
		Figure 1	Figure 2	Figure 2	Figure 3	Figure 3		
Lead wire diameter	d	0.5 - 0.6	0.6	0.6 - 0.8	0.8	0.8	±0.05	
Taping lead space	Р	12.7	25.4	25.4	38.1	38.1	±1	
Feed hole lead space *	P ₀	12.7	12.7	12.7	12.7	12.7	±0.2 **	
Centering of the lead wire	P ₁	2.6	7.7	5.2	7.8	5.3	±0.7	
Centering of the body	P ₂	6.35	12.7	12.7	19.05	19.05	±1.3	
Lead spacing ***	F	7.5	10.0	15.0	22.5	27.5	+0.6/-0.1	
Component alignment	Δh	0	0	0	0	0	±2	
Component deviation	Δр	0	0	0	0	0	±1	
Height of component from tape center	H ₀ ****	18.5	18.5	18.5	18.5	18.5	±0.5	
Carrier tape width	W	18	18	18	18	18	+1/-0.5	
Hold down tape width	W _o	6	9	10	10	10	Minimum	
Hole position	W ₁	9	9	9	9	9	±0.5	
Hold down tape position	W ₂	3	3	3	3	3	Maximum	
Feed hole diameter	D ₀	4	4	4	4	4	±0.2	
Total tape thickness	t	0.7	0.7	0.7	0.7	0.7	±0.2	

* Available also 15 mm.

** Maximum 1 mm on 20 lead spacing.

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

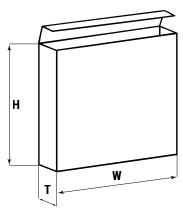
**** $H_0 = 16.5 \text{ mm}$ is available upon request.



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

Ammo Specifications

Dimensions (mm)							
H W T							
360	340	59					

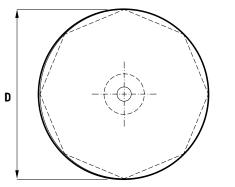


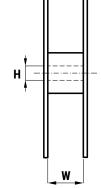
Reel Specifications

Dimensions (mm)				
D	Н	W		
355	30	55 Maximum		
500	25	JJ WIDXIIIIUIII		

Manufacturing Date Code (IEC-60062)

Y = Year, Z = Month				
Year	Code	Month	Code	
2010	A	January	1	
2011	В	February	2	
2012	С	March	3	
2013	D	April	4	
2014	E	May	5	
2015	F	June	6	
2016	Н	July	7	
2017	J	August	8	
2018	K	September	9	
2019	L	October	0	
2020	М	November	N	
2021	N	December	D	
2022	Р			
2023	R			
2024	S			
2025	Т			
2026	U			
2027	V			
2028	W			
2029	Х			
2030	A			







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