R41D, THB, (High dv/dt), Class X1/Y2, 300 VAC, 125°C (Automotive Grade)



Overview

The R41D is constructed of metallized polypropylene film, encapsulated with self-extinguishing resin, in a box of material meeting the requirements of UL 94 V-0.

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

Applications

For use in electromagnetic interference (EMI) suppression filter in "line-to-ground" and "across-the-line" applications, requiring Y2/X1 safety classification. Suitable for use in situations where failure of the capacitor could lead to danger of electric shock.

Benefits

- Approvals: ENEC, UL, cUL, CQC
- Class X1/Y2 (IEC 60384-14)
- THB Grade IIIB: 85°C, 85% RH, 1,000 hours at 300 V URAC acc. to IEC 60384-14, for details see Environmental Test Data
- Rated voltage: 300 VAC 50/60 Hz
 Capacitance range: 0.001 μF 0.22 μF
- Lead spacing: 10 22.5 mm
- Max dv/dt: P10: 6000V/us, P15: 4500V/us, P22.5: 3000V/us
- 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 +125°C
- · Self-healing properties
- Automotive (AEC-Q200) grade



Part Number System

R41	3	1	2330	00	D0	M
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Y2, Metallized Polypropylene	3 = 300	F = 10.0 I = 15.0 N = 22.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	D0 D1	K = ±10% M = ±20%



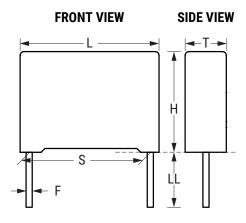
Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	LL Lead Length (mm)	Lead and Packaging Code
	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		
10	Tape & Reel (Large Reel)	H ₀ = 18.5 ±0.5	СК
15	Tape & Reel (Standard Reel)	H ₀ = 18.5 ±0.5	GY
13	Bulk (Bag)¹ – Short Leads	3.5 +0.5/-0	JB
22.5	Bulk (Bag)¹ – Short Leads	4.0 +0.5/-0	JE
	Bulk (Bag)¹ – 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

 $^{^1}$ For lead spacing 22.5 case sizes ≥8.5*17*26.5 the parts are packed in a Pizza box 335*320*34 mm



Dimensions - Millimeters



	S T			Н		L		F	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
10.0	±0.4	4.0	+0.2/-0.5	9.0	+0.1/-0.5	13.0	+0.3/-0.5	0.6	±0.05
10.0	±0.4	5.0	+0.2/-0.5	11.0	+0.1/-0.5	13.0	+0.3/-0.5	0.6	±0.05
10.0	±0.4	6.0	+0.2/-0.5	12.0	+0.1/-0.5	13.0	+0.3/-0.5	0.6	±0.05
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	7.5	+0.2/-0.5	13.5	+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	+0.3/-0.5	0.6	±0.05
15.0	±0.4	10.0	+0.2/-0.5	16.0	+0.1/-0.5	18.0	+0.3/-0.5	0.8	±0.05
15.0	±0.4	11.0	+0.2/-0.5	19.0	+0.1/-0.5	18.0	+0.3/-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	11.0	+0.2/-0.5	20.0	+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
		Note: Se	e Ordering O	ptions Tabl	e for lead ler	ngth (LL/H ₀)	options.		



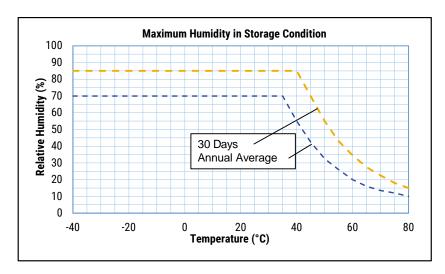
Performance Characteristics

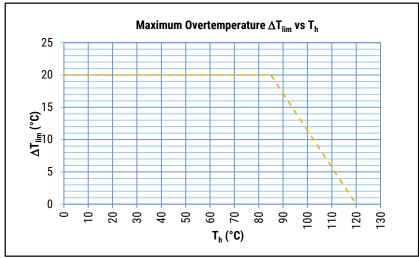
Dielectric	Polypropylene film					
Plates		Metal layer deposited by evaporation under vacum				
Winding	Non-inductive type	Non-inductive type				
Leads	Tinned wire					
Protection	Plastic case, thermosetting resin fill	ed. Box material is solvent resista	ant and flame retard	ant according to UL 94		
Related Documents	IEC 60384-14, EN 60384-14					
Rated Voltage (V _R)	300 VAC (50/60 Hz)					
Recommended DC Voltage	1,200 VDC					
Capacitance Range	0.001 - 0.22 μF					
Capacitance Values	E6 series (IEC 60063)					
Capacitance Tolerance	±10%, ±20%					
Temperature Range	-40°C to +125°C					
Climatic Category	40/110/56 IEC 60068-1					
Reliability	Operational life at rated voltage: 100,000 hours at 85°C ; 2000 hours at 125°C					
	Storage time: ≤ 24 months from the date marked on the label package					
	Average relative humidity per year ≤ 70%					
Storage Conditions	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, CQC					
		Maximum Values at +25°C	±5°C			
Dissipation Factor (tanδ) at 1 kHz	Pitch = 10 mm	Pitch = 15 mr	n	Pitch = 22.5 mm		
	0.8%	0.5%		0.3%		
Hi-Pot Test	Terminal To Terminal	4.0k VDC (Type test 60 seco	onds, each ramp 5	seconds)		
THEOLIEST	Terminal To Case	4.0k VDC (Type test 60 seco	onds, each ramp 5	seconds)		
		Measured at +25°C ±5°C)			
		Minimum Values Between Ter	minals			
Insulation Resistance	Voltage Charge	Voltage Charge Time	С	≤ 0.33 µF		
	100 VDC	1 minute		• 10 ⁵ MΩ • 10 ⁵ MΩ)*		

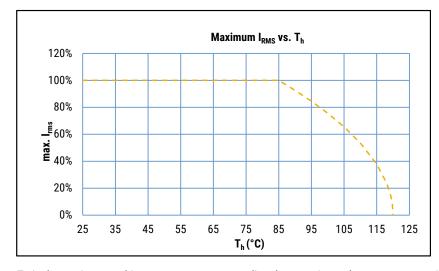
^{*} Typical value



Performance Characteristics cont.



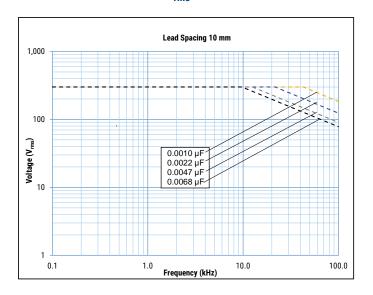


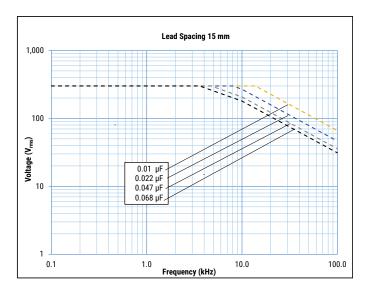


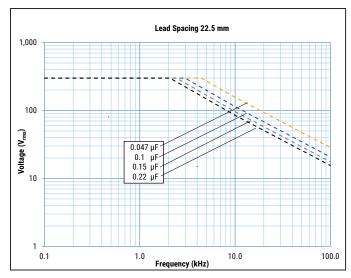
 T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C.



Maximum Voltage (V_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 85 °C)

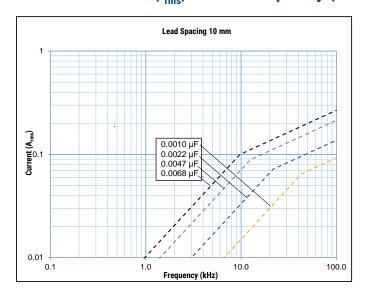


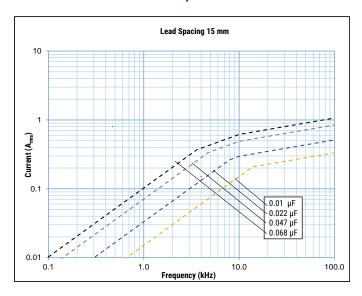


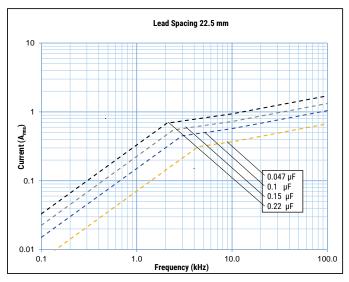




Maximum Current (I_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 85°C)





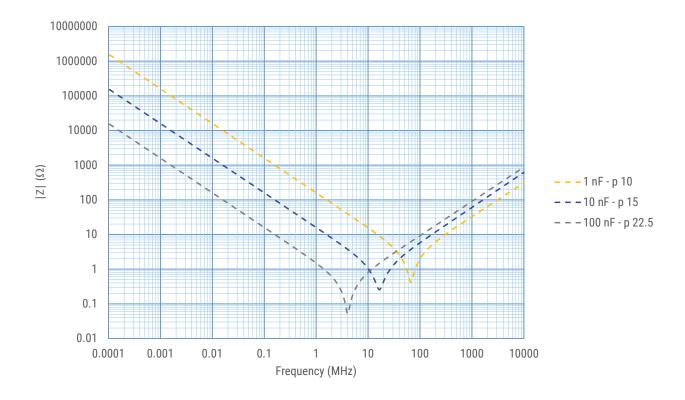




Qualification

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.

Impedance Graph





Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14	1.7 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 98m/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 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
THB test1		65°C, 93% RH and 1000 VDC, 1,600 hours Capacitance change (Δ C/C): \leq 10% Dissipation factor change (Δ tanδ): \leq 150 * 10 ⁻⁴ (at 1 kHz for Cap > 1 μF) Dissipation factor change (Δ tanδ): \leq 240 * 10 ⁻⁴ (at 10 kHz for Cap \leq 1 μF) IR \geq 50% of initial limit or minimum 200 MΩ
THB test2 For P10 (≥ 2.2 nF) and ≥ P15 Parts		85°C, 85% RH and 300 VAC, 1,000 hours Capacitance change (Δ C/C): \leq 10% Dissipation factor change (Δ tan δ): \leq 150 * 10 ⁻⁴ (at 1 kHz for Cap > 1 μF) Dissipation factor change (Δ tan δ): \leq 240 * 10 ⁻⁴ (at 10 kHz for Cap \leq 1 μF) IR \geq 50% of initial limit or minimum 200 MΩ
THB test3 For P10 (< 2.2 nF)		85°C, 85% RH and 240 VAC, 1,000 hours Capacitance change (Δ C/C): \leq 10% Dissipation factor change (Δ tan δ): \leq 150 * 10 ⁻⁴ (at 1 kHz for Cap > 1 μF) Dissipation factor change (Δ tan δ): \leq 240 * 10 ⁻⁴ (at 10 kHz for Cap \leq 1 μF) IR \geq 50% of initial limit or minimum 200 M Ω
THB test4 For P10 (< 2.2 nF)		85°C, 85% RH and 300 VAC, 500 hours Capacitance change (Δ C/C): \leq 10% Dissipation factor change (Δ tan δ): \leq 150 * 10 ⁻⁴ (at 1 kHz for Cap > 1 μF) Dissipation factor change (Δ tan δ): \leq 240 * 10 ⁻⁴ (at 10 kHz for Cap \leq 1 μF) IR \geq 50% of initial limit or minimum 200 M Ω

Approvals

Certification Body	Mark	Specification	File Number
IMQ S.p.A.		EN/IEC 60384-14	V4160
UL	c FNO US	UL 60384-14 and CAN/CSA E60384-14 (300 VAC)	E97797
cqc	Cec	IEC 60384-14	CQC13001101264 CQC15001128704 CQC19001218777 CQC13001087758



Environmental Compliance

All KEMET EMI capacitors are RoHS Compliant.





HF part (C-spec V106, black color box) is available in case of customer request, please contact KEMET for individual datasheet.

Table 1 - Ratings & Part Number Reference

Capacitance	Dimensions in mm			Lead Spacing dV/dt		KEMET	Customer
Value (µF)	T	Н	L	(S)	(V/µs)	Part Number	Part Number
0.001	4.0	9.0	13.0	10.0	6000	413F1100(1)D0(2)	R413F1100(1)D0(2)
0.0015	4.0	9.0	13.0	10.0	6000	413F1150(1)D0(2)	R413F1150(1)D0(2)
0.0022	4.0	9.0	13.0	10.0	6000	413F1220(1)D0(2)	R413F1220(1)D0(2)
0.0033	5.0	11.0	13.0	10.0	6000	413F1330(1)D0(2)	R413F1330(1)D0(2)
0.0047	5.0	11.0	13.0	10.0	6000	413F1470(1)D1(2)	R413F1470(1)D1(2)
0.0047	6.0	12.0	13.0	10.0	6000	413F1470(1)D0(2)	R413F1470(1)D0(2)
0.0068	6.0	12.0	13.0	10.0	6000	413F1680(1)D0(2)	R413F1680(1)D0(2)
0.0047	5.0	11.0	18.0	15.0	4500	413I1470(1)D0(2)	R413I1470(1)D0(2)
0.0068	5.0	11.0	18.0	15.0	4500	413I1680(1)D0(2)	R413I1680(1)D0(2)
0.01	5.0	11.0	18.0	15.0	4500	41312100(1)D0(2)	R413I2100(1)D0(2)
0.015	5.0	11.0	18.0	15.0	4500	413I2150(1)D1(2)	R413I2150(1)D1(2)
0.015	6.0	12.0	18.0	15.0	4500	413I2150(1)D0(2)	R413I2150(1)D0(2)
0.022	6.0	12.0	18.0	15.0	4500	413I2220(1)D1(2)	R413I2220(1)D1(2)
0.022	7.5	13.5	18.0	15.0	4500	413I2220(1)D0(2)	R413I2220(1)D0(2)
0.033	7.5	13.5	18.0	15.0	4500	413I2330(1)D1(2)	R413I2330(1)D1(2)
0.033	8.5	14.5	18.0	15.0	4500	413I2330(1)D0(2)	R413I2330(1)D0(2)
0.047	10.0	16.0	18.0	15.0	4500	413I2470(1)D0(2)	R413I2470(1)D0(2)
0.068	11.0	19.0	18.0	15.0	4500	413I2680(1)D0(2)	R413I2680(1)D0(2)
0.047	6.0	15.0	26.5	22.5	3000	413N2470(1)D0(2)	R413N2470(1)D0(2)
0.068	7.0	16.0	26.5	22.5	3000	413N2680(1)D0(2)	R413N2680(1)D0(2)
0.1	8.5	17.0	26.5	22.5	3000	413N3100(1)D1(2)	R413N3100(1)D1(2)
0.1	10.0	18.5	26.5	22.5	3000	413N3100(1)D0(2)	R413N3100(1)D0(2)
0.15	10.0	18.5	26.5	22.5	3000	413N3150(1)D1(2)	R413N3150(1)D1(2)
0.15	11.0	20.0	26.5	22.5	3000	413N3150(1)D0(2)	R413N3150(1)D0(2)
0.22	13.0	22.0	26.5	22.5	3000	413N3220(1)D0(2)	R413N3220(1)D0(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⁾ $M = \pm 20\%$, $K = \pm 10\%$



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.

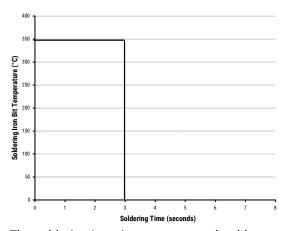
Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above the recommended limits may result to degradation or permanent damage to the capacitors.

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

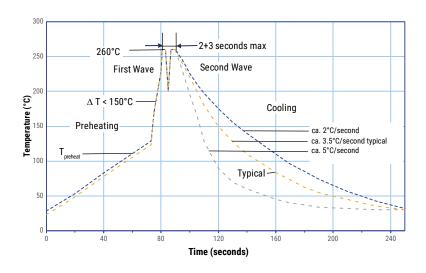
The following is the recommendation for manual soldering with a soldering iron.

Recommended Soldering Temperature



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.

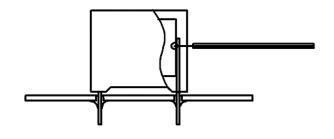
1. The table indicates the maximum set-up temperature of the soldering process Figure 1

Dielectric		mum heat erature	Maximum Peak Soldering Temperature		
Film 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	125°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	125°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.



Mounting

Resistance to Vibration and Mechanical Shock

AEC-Q200 Rev. E Mechanical Stress Tests:

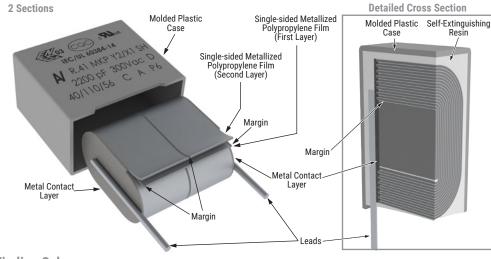
Mechanical Shock	MIL-STD-202 Method 213	Figure 1 of Method 213 • THT: Condition C • SMD: Condition C • Tested per the Supplier's recommended mounting method
Vibration	MIL-STD-202 Method 204	 5 g for 20 minutes, 12 cycles each of 3 orientations Tested per the Supplier's recommended mounting method Verification of transfer load: during setup, verify that with the selected PCB design (size, thickness and secure points), or an alternative mount, that the transferred load onto the component corresponds to the requested load. This verification can be achieved using a laser vibrometer or other adequate measuring device Test from 10 Hz - 2,000 Hz.

The capacitors are designed for PCB mounting.

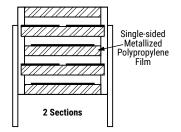
The stand-off pipes must be in good contact with the printed circuit board.

The capacitor body has to be properly fixed (e.g. clamped or glued).

Construction



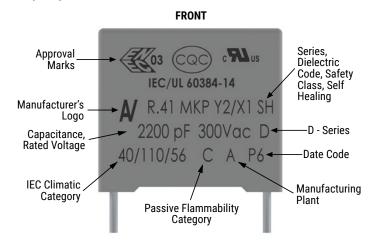
Winding Scheme

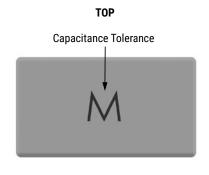




Marking

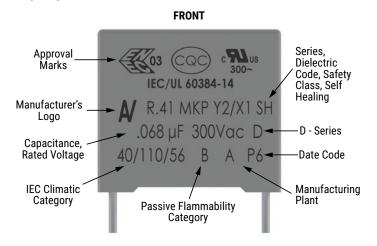
Lead Spacing 10 mm

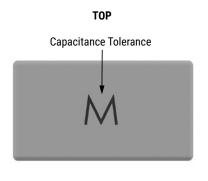




NOTE: Hot imprinting with or without color or ink jet or laser marking

Lead Spacing ≥ 15 mm, 27.5 mm





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

Slight change in the layout can be possible but this does not affect the content of the information of the current marking.

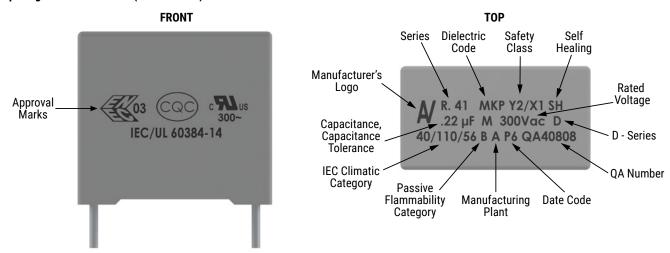
This change will be achieved without impact to product form, fit or function, as the products are equivalent with respect to physical, mechanical, quality and reliability characteristics.

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



Marking cont.

Lead Spacing 27.5 and 37.5 mm (alternatives*)



^{*} 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 Year Code Year Code Month Code Month Cod											
2020	М	2027	V	2034	E	January	1	July	7		
2021	N	2028	W	2035	F	February	2	August	8		
2022	Р	2029	Х	2036	Н	March	3	September	9		
2023	R	2030	Α	2037	J	April	4	October	0		
2024	S	2031	В	2038	K	May	5	November	N		
2025	Т	2032	С	2039	L	June	6	December	D		
2026	U	2033	D	2040	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
Lea	Lead And Packaging Code:		00 - JA - JB JE - JH	40 - 50	JM	GY	СК	DQ	
	4.0	9.0	13.0	2,000	1,800	2,200	750	1,500	1,000
10	5.0	11.0	13.0	1,300	1,500	2,000	600	1,250	800
	6.0	12.0	13.0	1,000	1,200	1,800	500	1,000	680
	5.0	11.0	18.0	2,000	1,000	1,250	600	1,250	800
	6.0	12.0	18.0	1,750	900	1,000	500	1,000	680
15	7.5	13.5	18.0	1,000	700	800	350	800	500
13	8.5	14.5	18.0	1,000	500	650	300	700	440
	10.0	16.0	18.0	750	500	550	270	600	380
	11.0	19.0	18.0	450	350	400	270	500	340
	6.0	15.0	26.5	805	500	450	300	700	464
	7.0	16.0	26.5	700	500	450	250	550	380
22.5	8.5	17.0	26.5	468	300	350	250	450	280
22.5	10.0	18.5	26.5	396	300	350	160	350	235
	11.0	20.0	26.5	360	250	200	160	350	217
	13.0	22.0	26.5	300	200	150	130	300	-

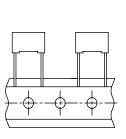


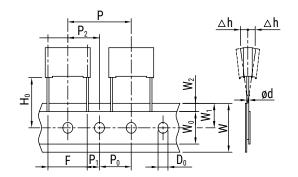
Lead Taping & Packaging (IEC 60286-2)

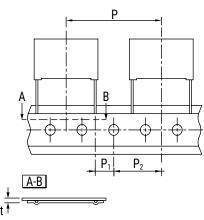
Figure 1 Lead Spacing 10 mm

Figure 2 Lead Spacing 15 mm

Figure 3 Lead Spacing 22.5 – 27.5 mm







Taping Specification

Description	Symbol	Dimensions (mm)				
		Lead Space				
		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 _o	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 _o	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

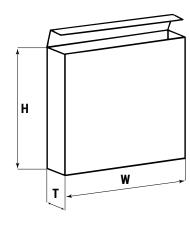
^{****} H_0 = 16.5 mm is available upon request



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

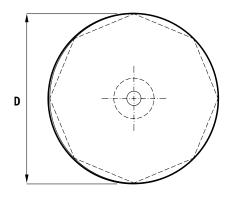
Ammo Specifications

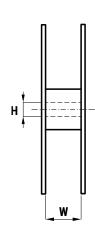
Dimensions (mm)						
Н	W	Т				
360	340	59				



Reel Specifications

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







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