Metallized Polypropylene Film EMI Suppression Capacitors R41 Series, Class Y2, 300 VAC, 110°C (Automotive Grade)



Overview

The R41 Series 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 are available (up to 22.5 mm Lead Spacing) and meet the demanding Automotive Electronics Council's AEC–Q200 qualification requirements.

Applications

For use in electromagnetic interference (EMI) suppression filter in across-the-line applications requiring Y2 / X1 safety classification. Intended for use in situations where 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
- Class Y2 / X1 (IEC 60384-14)
- Rated voltage: 300 VAC 50/60 Hz
- Capacitance range: 0.001 1 µF
- Lead spacing: 7.5 37.5 mm (7.5 mm in progress)
- 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 5,000 VDC/2,500 VAC
- · Self-healing properties
- Automotive (AEC-Q200) grades available up to 22.5 mm Lead Spacing

Part Number System

R41	3	I	2330	00	M1	М
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Lead and Packaging Code	Internal Use	Capacitance Tolerance
Y2, Metallized Polypropylene	3 = 300	D = 7.5 F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	See Ordering Options Table	00 M1	K = ±10% M = ±20%





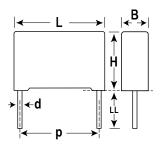
Ordering Options Table

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 ₀ = 18.5 +/-0.5	DQ	
	Other Lead and Packaging Options			
10,	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	СК	
15,	Bulk (Bag) – Short Leads	3.5 +0.5/-0	JB	
22.5	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/-1	JM	
	Bulk (Bag) – Long Leads	30 +5/-0	40	
	Bulk (Bag) – Long Leads	25 +2/-1	50	
	Standard Lead and Packaging Options			
	Bulk (Bag) – Short Leads	4 +2/-0	00	
27.5	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	СК	
21.5	Other Lead and Packaging Options			
	Bulk (Bag) – Long Leads	30 +5/-0	40	
	Bulk (Bag) – Long Leads	25 +2/-1	50	
	Standard Lead and Packaging Options			
	Bulk (Bag) – Short Leads	4 +2/-0	00	
37.5	Other Lead and Packaging Options			
	Bulk (Bag) – Long Leads	30 +5/-0	40	
	Bulk (Bag) – Long Leads	25 +2/-1	50	



Dimensions – Millimeters





	р В Н		L		d				
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
7.5	+/-0.4	4.0	+0.1	9.0	+0.1	10.0	+0.2	0.5	+/-0.05
7.5	+/-0.4	5.0	+0.1	10.5	+0.1	10.0	+0.2	0.5	+/-0.05
7.5	+/-0.4	6.0	+0.1	12.0	+0.1	10.5	+0.2	0.5	+/-0.05
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	7.5	+0.2	13.5	+0.1	18.0	+0.5	0.6	+/-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	11.0	+0.2	19.0	+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	13.0	+0.2	22.0	+0.1	26.5	+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	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
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	20.0	+0.3	40.0	+0.1	41.5	+0.3	1.0	+/-0.05
		Note: S	ee Ordering (Options Tab	le for lead ler	ngth (LL/H _o)	options.		



Performance Characteristics

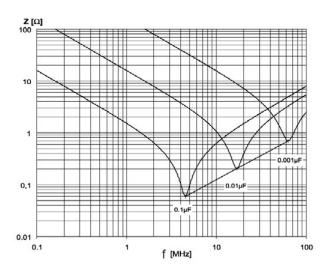
Dielectric	Polypropylene film	Polypropylene film					
Plates	Metal layer deposited by ev	Metal layer deposited by evaporation under vacuum					
Winding	Non-inductive type						
Leads	Tinned wire						
Protection	Plastic case, thermosetting	resin filled. Box material is solv	vent resistant and flame reta	rdant according to UL94.			
Related Documents	IEC 60384-14, EN 60384-1	4					
Rated Voltage (V_R)	300 VAC (50/60 Hz), 1,000	VDC					
Capacitance Range	0.0010 µF to 1 µF						
Capacitance Values	E6 series (IEC 60063)	E6 series (IEC 60063)					
Capacitance Tolerance	±10%, ±20%						
Temperature Range	-40°C to +110°C						
Climatic Category	40/110/56 IEC 60068-1	40/110/56 IEC 60068-1					
Approvals	ENEC, UL, cUL, CQC						
Dissipation Factor (tanδ)	≤ 0.3% (0.2%*) @ 1kHz , +	25°C ±5°C (* typical value)					
Test Voltage Between Terminals	requirements in applicable e	test is carried out at 5,000 VDC/2 quipment standards. All electrical as there is a risk to damage the ca	characteristics are checked a	after the test. It is not			
		Measured at +25°C ±5°C, a	according to IEC 60384–2				
		Minimum Values Be	etween Terminals				
Insulation Resistance	Voltage Charge	Voltage Charge Time	C ≤ 0.33 µF	C > 0.33 µF			
	100 VDC	1 min	≥ 1 • 10 ⁵ MΩ (≥ 5 • 10 ⁵ MΩ)* * typical value	≥ 30,000 MΩ • μF (≥ 150,000 MΩ • μF)* * typical value			
In DC Applications	Recommended voltage ≤ 1	Recommended voltage ≤ 1,000 VDC					

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	EN/IEC 60384–14	1.7 x V $_{\rm R}$ 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 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	V41160	
c Sus	UL 60384-14 and CAN/CSA E60384-14 (300 VAC)	E97797	
Cec	GB/T 14472	CQC03001006821 CQC10001050896 CQC12001083744 CQC13001087758	

Environmental Compliance

All KEMET EMI capacitors are RoHS Compliant.





Table 1 – Ratings & Part Number Reference

Capacitance	nce Dimensions in mm Lea		Lead Spacing	dV/dt	New KEMET	Legacy Part Number	
Value (µF)	В	Н	L	(p)	(V/µs)	Part Number	Legacy Part Number
0.0010	4.0	9.0	10.0	7.5	800	413D1100(1)00(2)	R413D1100(1)00(2)
0.0022	4.0	9.0	10.0	7.5	800	413D1220(1)00(2)	R413D1220(1)00(2)
0.0033	5.0	10.5	10.0	7.5	800	413D1330(1)00(2)	R413D1330(1)00(2)
0.0047	6.0	12.0	10.5	7.5	800	413D1470(1)00(2)	R413D1470(1)00(2)
0.0010	4.0	9.0	13.0	10.0	800	413F1100(1)00(2)	R413F1100(1)00(2)
0.0015	4.0	9.0	13.0	10.0	800	413F1150(1)00(2)	R413F1150(1)00(2)
0.0022	4.0	9.0	13.0	10.0	800	413F1220(1)00(2)	R413F1220(1)00(2)
0.0033	4.0	9.0	13.0	10.0	800	413F1330(1)M1(2)	R413F1330(1)M1(2)
0.0047	5.0	11.0	13.0	10.0	800	413F1470(1)M1(2)	R413F1470(1)M1(2)
0.0068	6.0	12.0	13.0	10.0	800	413F1680(1)00(3)	R413F1680(1)00(3)
0.0033	5.0	11.0	18.0	15.0	600	41311330(1)00(2)	R413I1330(1)00(2)
0.0047	5.0	11.0	18.0	15.0	600	413I1470(1)00(2)	R413I1470(1)00(2)
0.0068	5.0	11.0	18.0	15.0	600	413I1680(1)00(2)	R413I1680(1)00(2)
0.010	5.0	11.0	18.0	15.0	600	41312100(1)00(2)	R413I2100(1)00(2)
0.015	5.0	11.0	18.0	15.0	600	413I2150(1)M1(2)	R413I2150(1)M1(2)
0.022	6.0	12.0	18.0	15.0	600	413I2220(1)M1(2)	R413I2220(1)M1(2)
0.033	7.5	13.5	18.0	15.0	600	413I2330(1)M1(2)	R413I2330(1)M1(2)
0.047	8.5	14.5	18.0	15.0	600	413I2470(1)M1(2)	R413I2470(1)M1(2)
0.068	11.0	19.0	18.0	15.0	600	41312680(1)00(2)	R413I2680(1)00(2)
0.047	6.0	15.0	26.5	22.5	500	413N2470(1)00(2)	R413N2470(1)00(2)
0.068	6.0	15.0	26.5	22.5	500	413N2680(1)M1(3)	R413N2680(1)M1(3)
0.068	7.0	16.0	26.5	22.5	500	413N2680(1)00(2)	R413N2680(1)00(2)
0.10	8.5	17.0	26.5	22.5	500	413N3100(1)M1(2)	R413N3100(1)M1(2)
0.15	10.0	18.5	26.5	22.5	500	413N3150(1)M1(2)	R413N3150(1)M1(2)
0.22	13.0	22.0	26.5	22.5	500	413N3220(1)00(2)	R413N3220(1)00(2)
0.22	13.0	22.0	32.0	27.5	400	413R3220(1)00(2)	R413R3220(1)00(2)
0.33	14.0	28.0	32.0	27.5	400	413R3330(1)00(2)	R413R3330(1)00(2)
0.47	18.0	33.0	32.0	27.5	400	413R3470(1)00(2)	R413R3470(1)00(2)
0.68	18.0	33.0	32.0	27.5	400	413R3680(1)00(2)	R413R3680(1)00(2)
0.47	13.0	24.0	41.5	37.5	300	413W 3470(1)00(2)	R413W 3470(1)00(2)
0.68	16.0	28.5	41.5	37.5	300	413W 3680(1)00(2)	R413W 3680(1)00(2)
1.0	20.0	40.0	41.5	37.5	300	413W 4100(1)00(2)	R413W 4100(1)00(2)
Capacitance Value (µF)	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/µs)	New KEMET Part Number	Legacy Part Number

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

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

(3) $M = \pm 20\%$ (only available tolerance).

Bold blue text = Under Development (7.5 mm Lead Spacing only)



Soldering Process

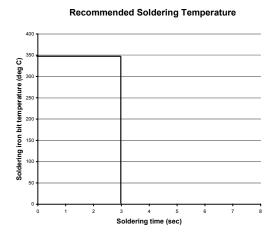
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 - 221°C for the new alloys. As a result, the heat stress to the components, even 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 throughhole 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

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

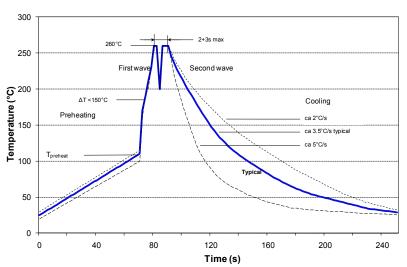


Figure 1

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
Polyphenylene Sulphide	150°C	150°C	160°C	270°C	270°C



Soldering Process cont'd

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.

Marking

- KEMET logo
- · Series
- Capacitance
- · Capacitance tolerance
- Rated voltage
- Capacitor class
- Approval marks
- · Manufacturing date code
- IEC climatic category
- Passive flammability class
- · Manufacturing plant

Ма	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	Мау	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								



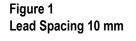
Packaging Quantities

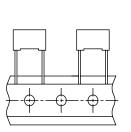
Lead Spacing (mm)	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo Taped
	4.0	9.0	10.0	2000	1500	1500	-	2100
7.5	5.0	10.5	10.0	1500	1000	1200	-	1600
	6.0	12.0	10.5	1000	800	1000	-	1350
	4.0		10.0	0000	1000		1700	(000
	4.0	9.0	13.0	2000	1800	750	1500	1000
10	5.0	11.0	13.0	1300	1500	600	1250	800
	6.0	12.0	13.0	1000	1200	500	1000	680
	5.0	11.0	18.0	2000	1000	600	1250	800
	6.0	12.0	18.0	1750	900	500	1000	680
15	7.5	13.5	18.0	1000	700	350	800	500
15	8.5	14.5	18.0	1000	500	300	700	440
	11.0	14.5	18.0	450	350	-	500	340
	11.0	19.0	10.0	430	550	_	500	540
	6.0	15.0	26.5	805	500	_	700	464
	7.0	16.0	26.5	700	500	_	550	380
22.5	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	-
	13.0	22.0	32.0	480	288	-	300	_
27.5	14.0	28.0	32.0	352	176	-	_	_
	18.0	33.0	32.0	256	128	-	_	-
	12.0	04.0	44 E	200	040			
	13.0	24.0	41.5	360	216	-	_	_
37.5	16.0	28.5	41.5	216	108	-	_	_
	20.0	40.0	41.5	126	84	-	-	-



Lead Taping & Packaging (IEC 60286-2)

Figure 2





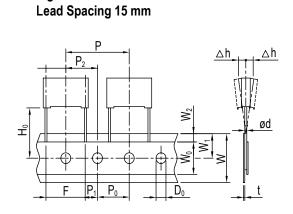
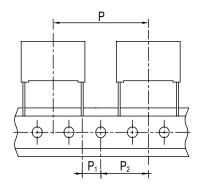


Figure 3 Lead Spacing 22.5 – 27.5 mm



Taping Specification

		Dimensions (mm)					
Description	Symbol						
Description	Cymbol	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	
Tape thickness	t	0.7	0.7	0.7	0.7	±0.2	

* Also available in 15 mm.

** Max 1 mm on 20 lead spaces.

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

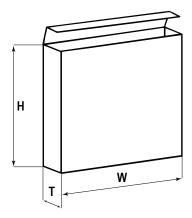
**** H_0 = 16.5 mm available upon request.



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

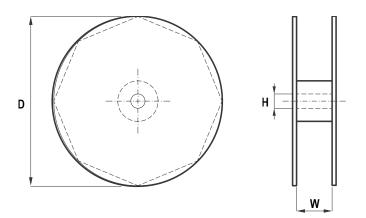
Ammo Specifications

Dimensions (mm)						
H W T						
360	340	59				



Reel Specifications

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





KEMET Corporation World Headquarters

2835 KEMET Way Simpsonville, SC 29681

Mailing Address: P.O. Box 5928 Greenville, SC 29606

www.kemet.com Tel: 864-963-6300 Fax: 864-963-6521

Corporate Offices Fort Lauderdale, FL

Fort Lauderdale, FL Tel: 954-766-2800

North America

Southeast Lake Mary, FL Tel: 407-855-8886

Northeast Wilmington, MA Tel: 978-658-1663

Central Novi, MI Tel: 248-306-9353

West Milpitas, CA Tel: 408-433-9950

Mexico Guadalajara, Jalisco Tel: 52-33-3123-2141

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