PMZ2074 EMI Capacitors, 2xX2 with One Common Terminal, 275VAC



Construction

Multilayer metallized paper encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.

Benefits

- · Approvals: ENEC
- Rated Voltage: 275VAC 50/60Hz
- Capacitance: 150nF + 33nF, 150nF + 47nF, 150nF + 68nF, 220nF + 82nF, 220nF + 100nF
- Pitch: 20.3 mm
- Capacitance Tolerance: ± 20%, ± 10%
- Climatic Category: 40/110/56/B, IEC 60068-1
- Tape and reel packaging in accordance with IEC 60286-2
- · RoHS compliance and lead-free terminations
- Operating temperature range of -40°C to +110°C
- 100% screening factory test at 2150VDC
- Highest possible safety regarding active and passive flammability
- Excellent self-healing properties ensure long life even when subjected to frequent overvoltages
- Good resistance to ionization due to impregnated paper dielectric
- · High dU/dt capability
- Impregnated paper ensures excellent stability and reliability properties, particularly in applications with continuous operation

Applications

For worldwide use as an electromagnetic interference suppressor in all X2, across-the-line applications or other demanding applications where two capacitors are utilized in series.



Ordering Information

PMZ2074	M	С	615	K	533	M	R30
Series	Rated Voltage	Pitch	Capacitance Code (pF)	Capacitance Tolerance	Capacitance Code (pF)		Packing Option & Leadform
Double Capacitor X2, Metallized Paper	M = 275VAC	C = 20.3	Digits 2-3 indicate the first three digits of the C ₁ capacitance value. First digit indicates the total number of digits in the capacitance value.	K = ±10% M = ±20%	Digits 2-3 indicate the first three digits of the C ₂ capacitance value. First digit indicates the total number of digits in the capacitance value.	M = ±20%	see Table 1



Ordering Options Table

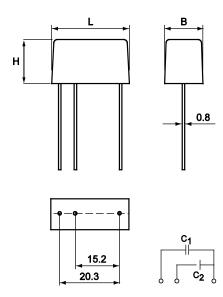
Standard Packaging Style	Lead Length	Ordering Code	
i dondignig otylo	(mm)		
Loose, long leads	30+5	R30	
Other options available on request			

Dimension Table

Pitch	Outer Dimension					
T Iton	В	Н	L			
20.3	12.5	16.0	24.0			
20.3	14	18	24.0			

Leadspacing Table

р	d	std I	max I
20.3 ± 0.4	0.8	30	30





Technical Data

Rated Voltage	275VAC 50/60Hz	
Capacitance Range	150nF + 33nF, 150nF + 47nF, 150nF + 68nF, 220nF + 82nF, 220nF + 100nF	
Capacitance Tolerance	± 20%, ± 10%, -5/+15%	
Temperature Range	-40 to +110°C	
Climatic Category	40/110/56/B	
Approvals	ENEC	
	Maximum Va	ues at +23°C
Dissipation Factor		
	1 kHz	1.3%
Test Voltage Between Terminals	The 100% screening factory to 2150 VDC. The voltage level requirements in applicable equiversities are of this test may not be repeated damage. KEMET is not liable	is selected to meet the uipment standards. All checked after the test. I due to potential capacitor
Insulation Resistance	12,000ΜΩ	
In DC applications	Recommended Voltage ≤ 630	OVDC



Environmental Test Data

Test	IEC Publication	Procedure
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each, 10Hz-500Hz at 0.75 mm or 98 m/s2
Bump	IEC 60068-2-29 Test Eb	4000 bumps at 390 m/s ²
Solderability	IEC 60068-2-20 Test Ta	Solder globule method Wetting time for d >0.8 < 1.5s
Active Flammability	IEC 60384-14	UR + 20 surge pulses at 2.5kV (pulse every 5s)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle Flame Test
Humidity	IEC 60068-2-3 Test Ca	+40°C and 90-95% R.H., 56 days

Environmental Compliance

All KEMET EMI capacitors are RoHS compliant



Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	



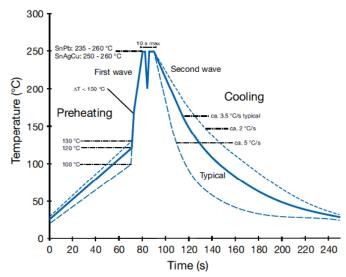
Table 1 – Ratings & Part Number Reference

Lead Space	Cap Value X (µF)	Cap Value Y (pF)	B (mm)	H (mm)	L (mm)	dV/dt (V/µsec) X	dV/dt (V/µsec) Y	F Article Code	Part Number
20.3	0.15	0.033	12.5	16.0	24.0	600	1200	P374CL154M275AC333	PMZ2074MC615K533MR30
20.3	0.15	0.047	12.5	16.0	24.0	600	1200	P374CL154M275AC473	PMZ2074MC615K547MR30
20.3	0.15	0.068	12.5	16.0	24.0	600	1200	P374CL154M275AC683	PMZ2074MC615K568MR30
20.3	0.22	0.082	14.0	18.0	24.0	600	1200	P374CR224M275AC823	PMZ2074MC622K582MR30
20.3	0.22	0.10	14.0	18.0	24.0	600	1200	P374CR224M275AC104	PMZ2074MC622K610MR30
Lead Space	Cap Value X (µF)	Cap Value Y (pF)	B (mm)	H (mm)	L (mm)	dV/dt (V/µsec) X	dV/dt (V/µsec) Y	F Article Code	Part Number



Soldering Process

The implementation of RoHS Directive has forced to select SnAuCu (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. This means that the heat stress to components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. The Polypropylene Capacitors are especially sensitive to heat (melting point of Polypropylene is 160–170°C). The wave soldering can be destructive especially for mechanically small Polypropylene Capacitors (lead spacings 5-10 mm), and great care has to be taken when soldering them. The recommended solder profiles from KEMET should be used. In case of doubt, KEMET should be consulted. In general the wave soldering curve from IEC Publication 61760-1 edition 2 gives a good guideline for successful soldering.



Marking

- · Manufacturer's logo
- · Article series
- Rated capacitance
- · Rated voltage
- · Capacitor class
- · Approval marks
- · Manufacturing date code
- · IEC climatic category
- · Passive flammability class



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Milan, Italy

Tel: 39-02-57518176

Rome, Italy

Tel: 39-06-23231718

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Dortmund, Germany Tel: 49-2307-3619672

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Beijing, China

Tel: 86-10-5829-1711

Shanghai, China Tel: 86-21-6447-0707

Taipei, Taiwan Tel: 886-2-27528585

Southeast Asia

Singapore Tel: 65-6586-1900

Penang, Malaysia Tel: 60-4-6430200

Bangalore, India Tel: 91-806-53-76817

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Other KEMET Resources

Tools			
Resource	Location		
Configure A Part: CapEdge	http://capacitoredge.kemet.com		
SPICE & FIT Software	http://www.kemet.com/spice		
Search Our FAQs: KnowledgeEdge	http://www.kemet.com/keask		

Product Information		
Resource	Location	
Products	http://www.kemet.com/products	
Technical Resources (Including Soldering Techniques)	http://www.kemet.com/technicalpapers	
RoHS Statement	http://www.kemet.com/rohs	
Quality Documents	http://www.kemet.com/qualitydocuments	

Product Request		
Resource	Location	
Sample Request	http://www.kemet.com/sample	
Engineering Kit Request	http://www.kemet.com/kits	

Contact			
Resource	Location		
Website	www.kemet.com		
Contact Us	http://www.kemet.com/contact		
Investor Relations	http://www.kemet.com/ir		
Call Us	1-877-MyKEMET		
Twitter	http://twitter.com/kemetcapacitors		

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Although we design and manufacture our products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

