Polypropylene Pulse/High Frequency Capacitors

R75H, Single Metallized Polypropylene Film, Radial, DC, and Pulse Applications (Automotive Grade)

Overview

The R75 125°C series 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 and lead spacing. Please see the Performance Characteristics for more information.

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

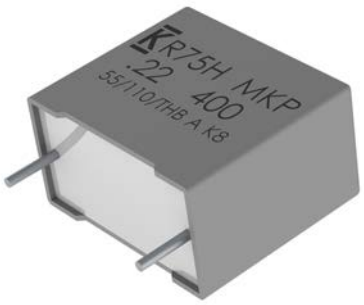
Applications

Typical applications include resonant circuit, high frequency medium to high current, silicon-controlled rectifier (SCR and IGBT) and SiC (e.g. MOSFET) commutation circuits as well as applications with high voltage and medium to high current in combination with high temperature and DC link.

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

Benefits

- Voltage range: 160 – 2,000 VDC
- Capacitance range: 1 nf – 33 µF
- Lead Spacing: 10 – 37.5 mm
- Capacitance tolerance: ±5%, ±10%, ±20%
- Climatic category: 55/110/56 IEC 60068–1
- Operating temperature range of –55°C to +125°C
- Usable in harsh environment, see table "Environmental Tests"
- RoHS compliance and lead-free terminations
- Tape & Reel packaging in accordance with IEC 60286–2
- Self-healing
- Automotive (AEC–Q200) grade



Part Number System

R75	P		N	2820	AA	H3		K
Series	Rated Voltage (VDC)		Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use		Capacitance Tolerance
Metallized Polypropylene	G =160 I = 250 M = 400 P = 630	Q = 1,000 R = 1,250 T = 1,600 U = 2,000	F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	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 H2 H3 H4	H5 H6 H7 H8	J = ±5% K = ±10% M = ±20%

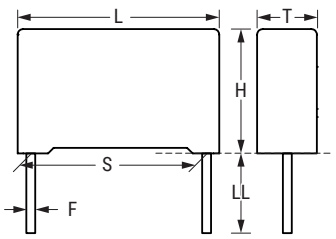
Ordering Options Table

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	AA
	Ammo Pack	H_0 = 18.5±0.5	DQ
	Other Lead and Packaging Options		
	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±0.5	CK
	Bulk (Bag) – Short Leads	2.7 +0.5/–0	JA
	Bulk (Bag) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Bag) – Short Leads	10±1	JC
	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
27.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/–0	AA
	Other Lead and Packaging Options		
	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±0.5	CK[1]
	Bulk (Tray) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Tray) – Short Leads	4.0 +0.5/–0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/–0.2	JH
	Bulk (Tray) – Long Leads	30 +5/–0	40
	Bulk (Tray) – Long Leads	25 +2/–1	50
37.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/–0	AA
	Other Lead and Packaging Options		
	Bulk (Tray) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Tray) – Short Leads	4.0 +0.5/–0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/–0.2	JH
	Bulk (Tray) – Long Leads	30 +5/–0	40
	Bulk (Tray) – Long Leads	25 +2/–1	50

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

Dimensions – Millimeters

Loose



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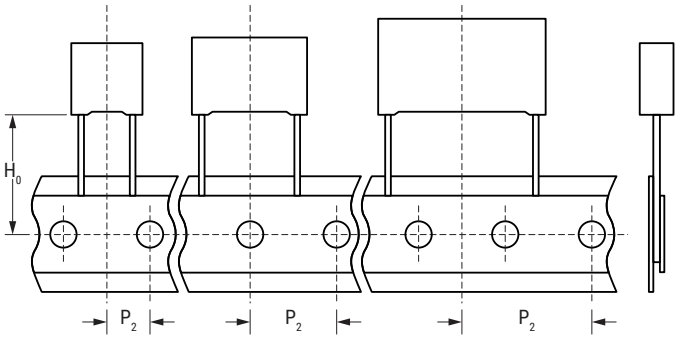
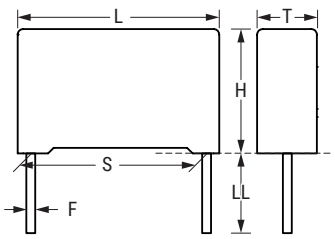


S		T		H		L		F	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
10.0	±0.4	4.0	+0.2/−0.5	9.0	+0.1/−0.5	13.0	+0.2/−0.5	0.6	±0.05
10.0	±0.4	5.0	+0.2/−0.5	11.0	+0.1/−0.5	13.0	+0.2/−0.5	0.6	±0.05
10.0	±0.4	6.0	+0.2/−0.5	12.0	+0.1/−0.5	13.0	+0.2/−0.5	0.6	±0.05
15.0	±0.4	4.0	+0.2/−0.5	10.0	+0.1/−0.5	18.0	+0.3/−0.5	0.8	±0.05
15.0	±0.4	5.0	+0.2/−0.5	11.0	+0.1/−0.5	18.0	+0.3/−0.5	0.8	±0.05
15.0	±0.4	6.0	+0.2/−0.5	12.0	+0.1/−0.5	18.0	+0.3/−0.5	0.8	±0.05
15.0	±0.4	7.5	+0.2/−0.5	13.5	+0.1/−0.5	18.0	+0.5/−0.5	0.8	±0.05
15.0	±0.4	8.5	+0.2/−0.5	14.5	+0.1/−0.5	18.0	+0.5/−0.5	0.8	±0.05
15.0	±0.4	9.0	+0.2/−0.5	12.5	+0.1/−0.5	18.0	+0.5/−0.5	0.8	±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
15.0	±0.4	13.0	+0.2/−0.5	12.0	+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

Note: See Ordering Options Table for lead length (LL/Ho) options.

Dimensions – Millimeters cont.

Loose



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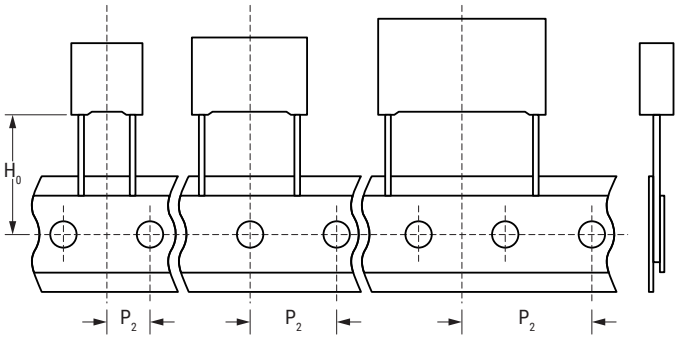


S		T		H		L		F	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
22.5	±0.4	8.5	+0.2/−0.5	17.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	10.0	+0.2/−0.5	18.5	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	11.0	+0.2/−0.5	20.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	13.0	+0.2/−0.5	22.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
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	20.0	+0.3/−0.7	40.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	24.0	+0.3/−0.7	44.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	24.0	+0.3/−0.7	15.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	24.0	+0.3/−0.7	19.0	+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/Ho) options.

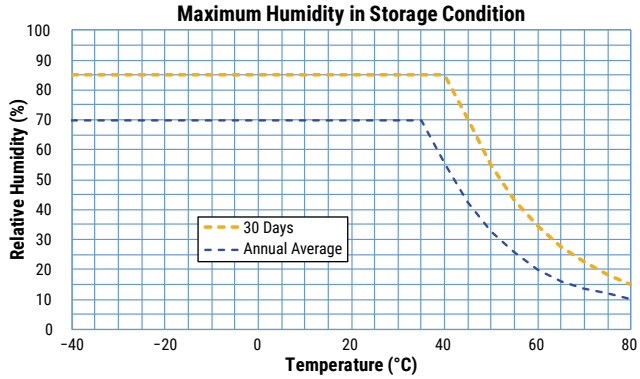
Performance Characteristics

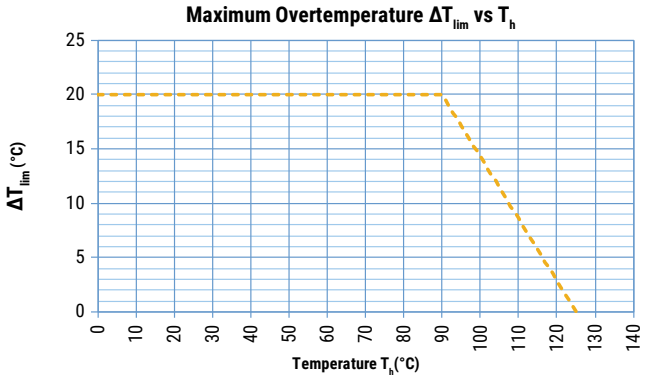
Dielectric	Polypropylene film						
Plates	Metal layer deposited by evaporation under vacum						
Winding	Non-inductive type						
Leads	Tinned wire						
Protection	Plastic case, thermosetting resin filled. Box material is solvent resistant and flame retardant according to UL94.						
Related Documents	IEC 60384–16						
Sections	1	1	1	1	1	1	
Rated Voltage V_R	160 VDC 90 VAC	250 VDC 140 VAC	250 VDC 160 VAC	400 VDC 220 VAC	630 VDC 250 VAC	1,000 VDC 250 VAC	
Capacitance Range (µF)	0.082 – 33	0.082 – 0.22	0.033 – 33	0.015 – 15	0.001 – 8.2	0.01 – 3.9	
Sections	3	3	3				
Rated Voltage V_R	1,250 VDC 600 VAC	1,600 VDC 650 VAC	2,000 VDC 700 VAC				
Capacitance Range (µF)	0.0082 – 1.8	0.0039 – 1.5	0.001 – 1				
Capacitance Values	E12 series (IEC 60063) measured at 1 kHz and +20 ±1°C						
Capacitance Tolerance	±5%, ±10%, ±20%						
Operating Temperature Range	–55°C to +125°C						
Rated Temperature T_R	+105°C						
Voltage Derating	Above +105°C DC and AC voltage derating is 1.25%/°C = operating voltage V_{op}						
Climatic Category	55/110/56 IEC 60068–1						
Storage Conditions	Storage time: ≤ 24 months from the date marked on the package label						
	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)						
Test Voltage	1.6 x V_R VDC for 2 seconds (between terminations) at +25°C ±5°C						
Capacitance Drift	Maximum 0.5% after a 2 year storage period at a temperature of +10°C to +40°C and a relative humidity of 40% to 60%						
Maximum Pulse Steepness	dV/dt according to Table 1. For working voltages lower than rated voltage (V < V_R), the specified dV/dt can be multiplied by the factor V_R/V.						
Reliability (Reference IEC 61709	Operational life at V_{op}(DC) > 200,000 hours at 85°C; 6,000 hours at 110°C; 2,000 hours at 125°C						
	Failure rate ≤ 1 FIT, T = +40°C, V = 0.5 x V_R						
	Failure criteria: open or short circuit, capacitance change > 10%, DF 2 times the catalog limits, IR < 0.005 x initial limit						
Temperature Coefficient	–(200±100) ppm/°C at 1 kHz						
Self-Inductance (Lead Length ~ 2 mm)	Lead Spacing (mm)	10	15	22.5	27.5	37.5	
	L (nH) ≈	9	10	16	18	20	
	Maximum 1 nH per 1 mm lead and capacitor length.						

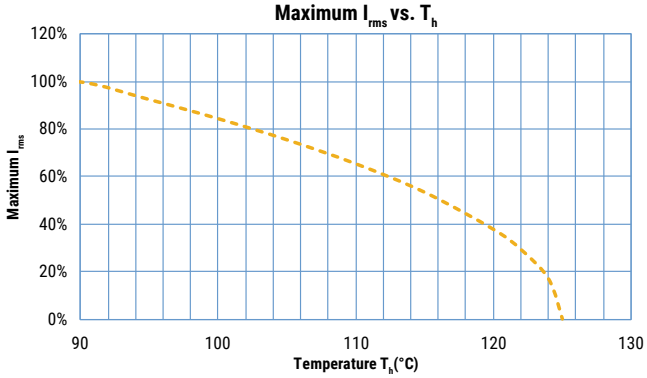
Performance Characteristics cont.

Dissipation Factor tanδ	Maximum Values at 25°C ±5°C				
	Frequency	C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF	1.0 µF < C ≤ 4.7 µF	C > 4.7 µF
	1 kHz	0.04%	0.05%	0.06%	0.1%
	10 kHz	0.06%	0.08%	-	-
	100 kHz	0.25%	-	-	-
Insulation Resistance	Measured at +25°C ±5°C, 100 VDC 60 seconds				
	Minimum Values Between Terminals				
	C ≤ 0.33 µF		C > 0.33 µF		
	≥ 100,000 MΩ (≥ 500,000 MΩ)*		≥ 30,000 MΩ • µF (≥ 150,000 MΩ • µF)*		

** Typical value*





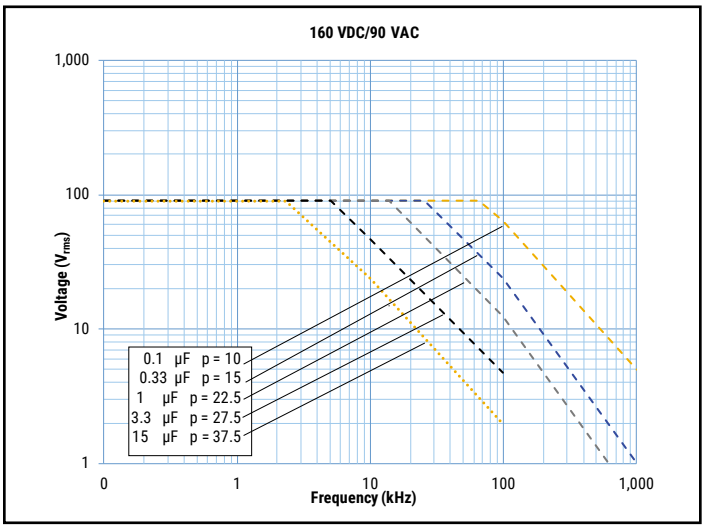


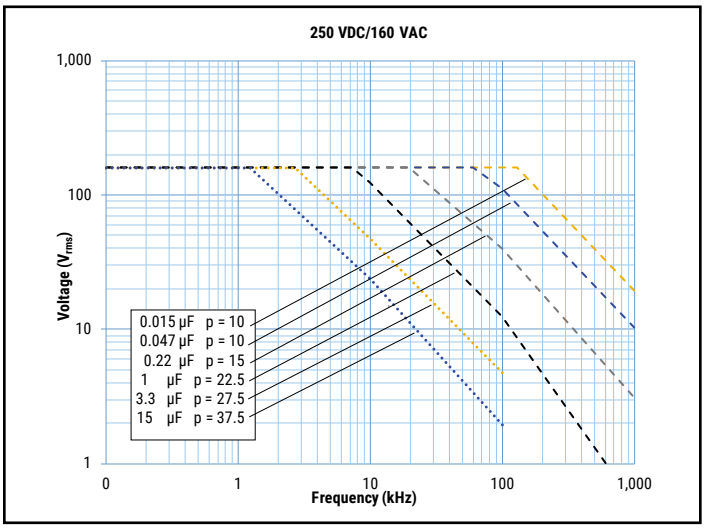
T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C.

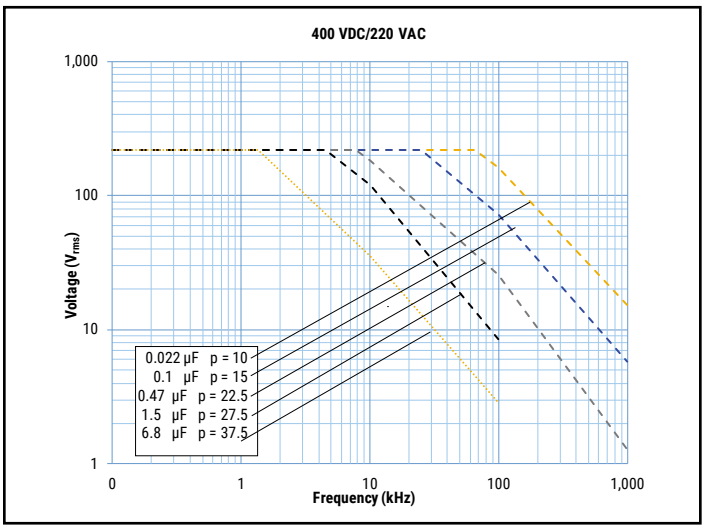
Qualification

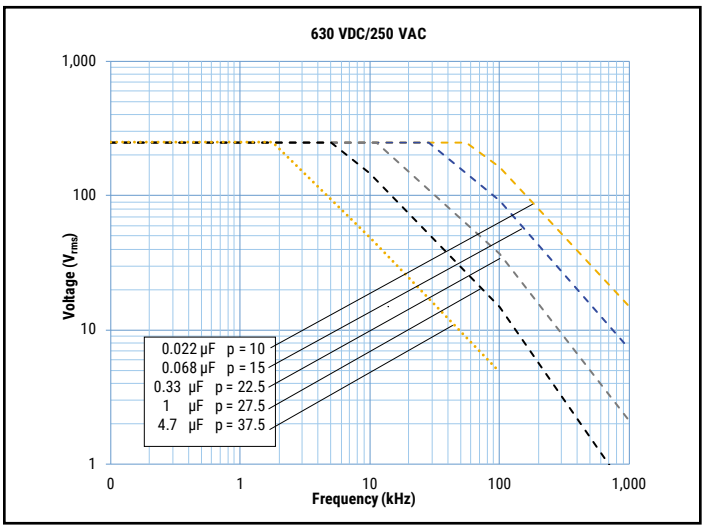
Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC–Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics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

Maximum Voltage (V_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 90°C)



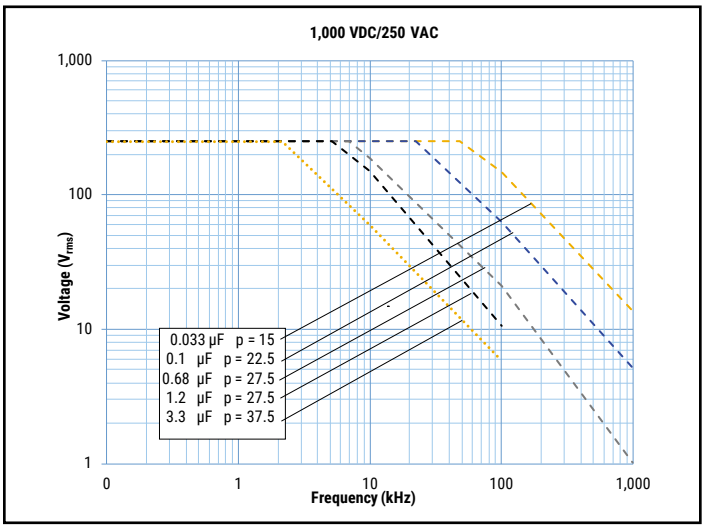


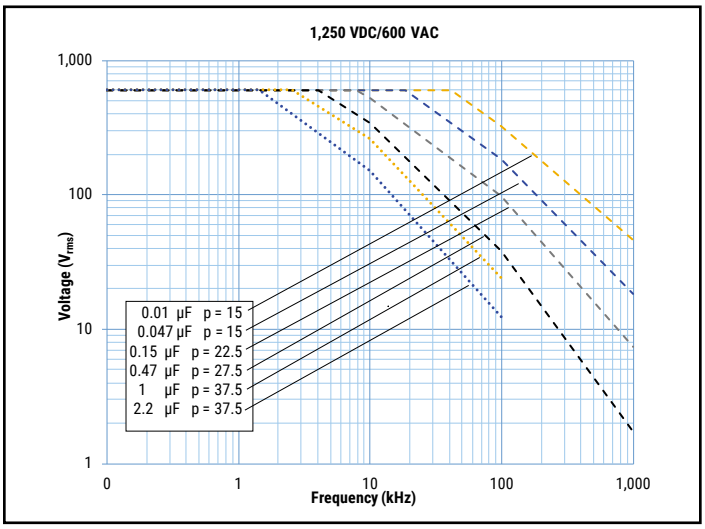


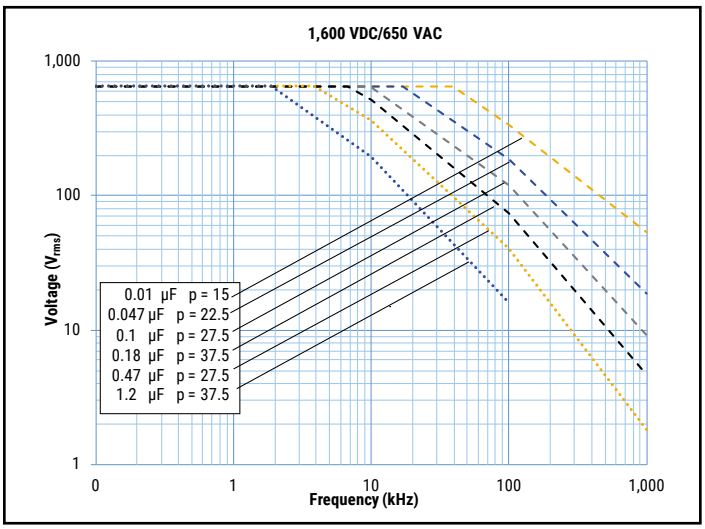


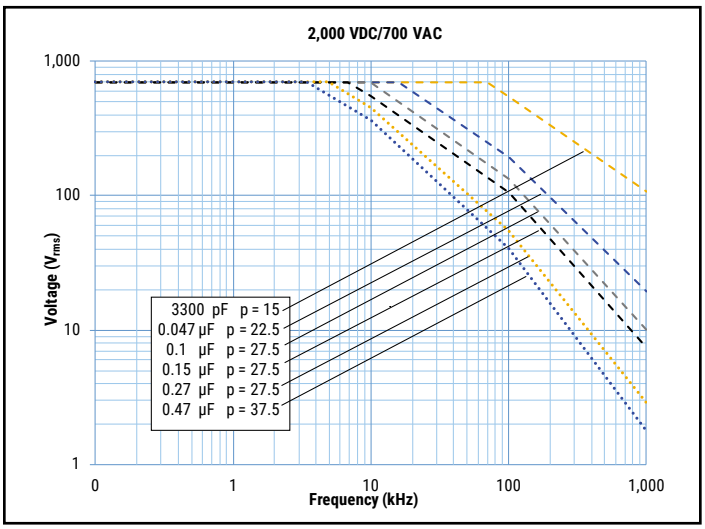
All the curves are evaluated in accordance to the datasheet declarations and considering an environmental condition as Dry Condition (absolute humidity < 30 g/m³).
If your environment is too harsh in terms of temperature and relative humidity, please contact KEMET for any kind of information.

Maximum Voltage (V_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 90°C) cont.









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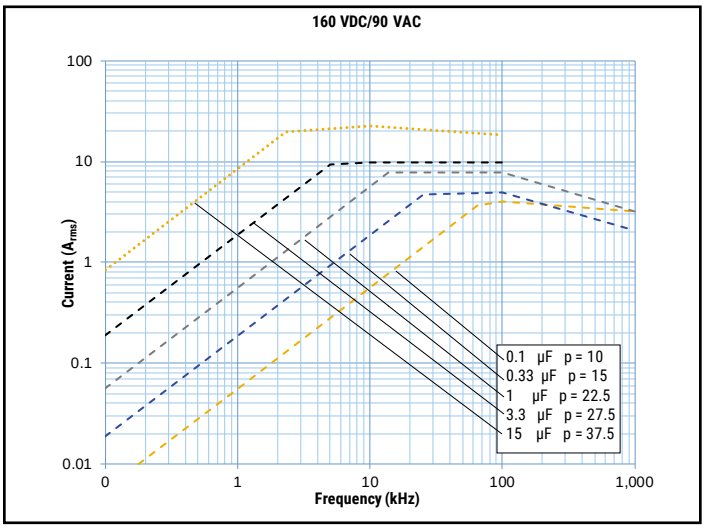
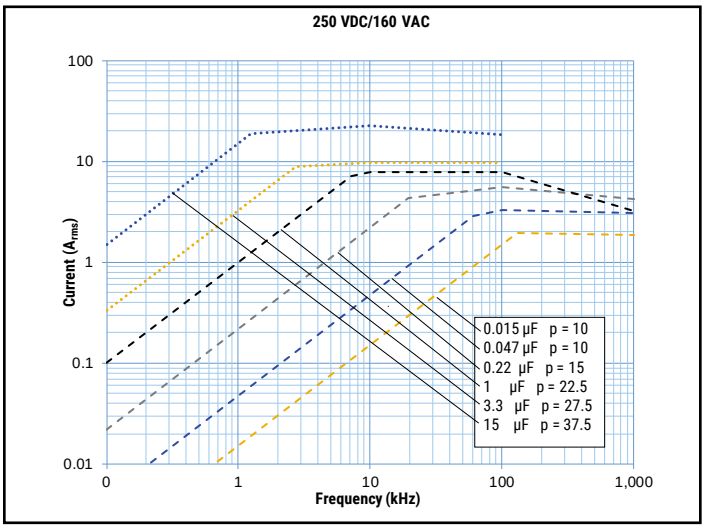
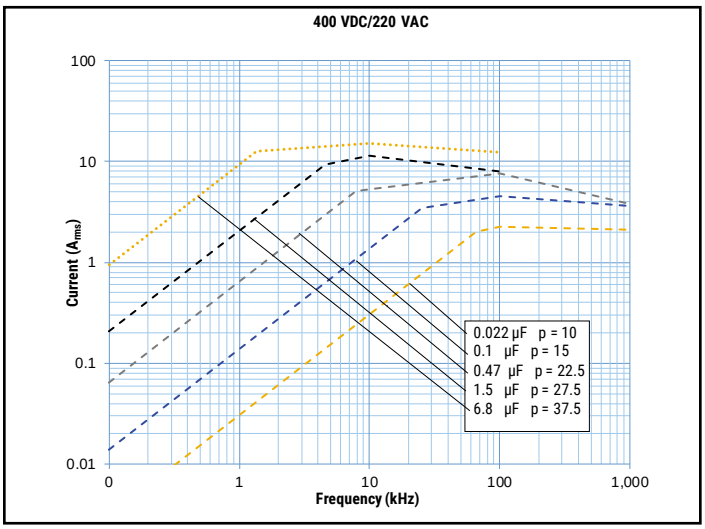
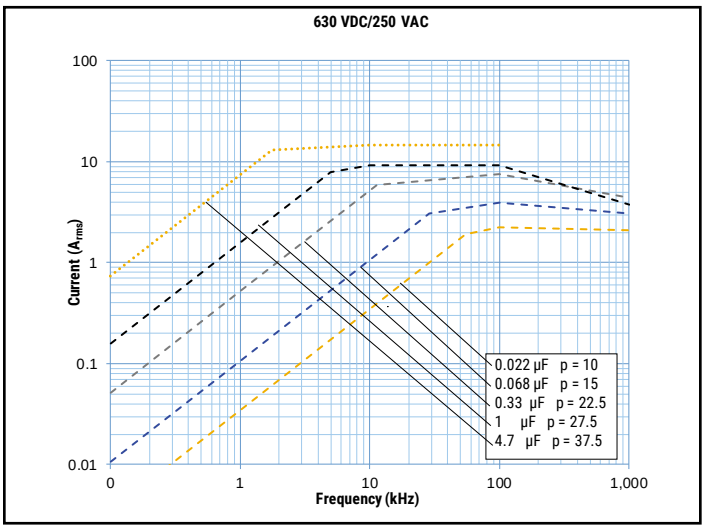
Maximum Current (I_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 90°C)



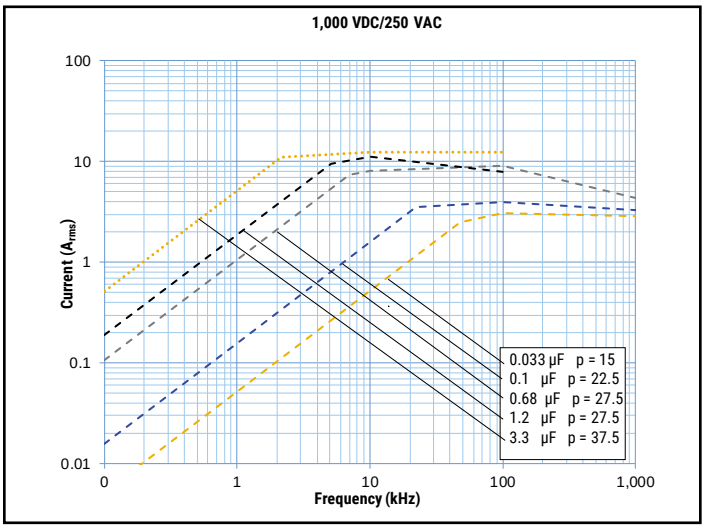


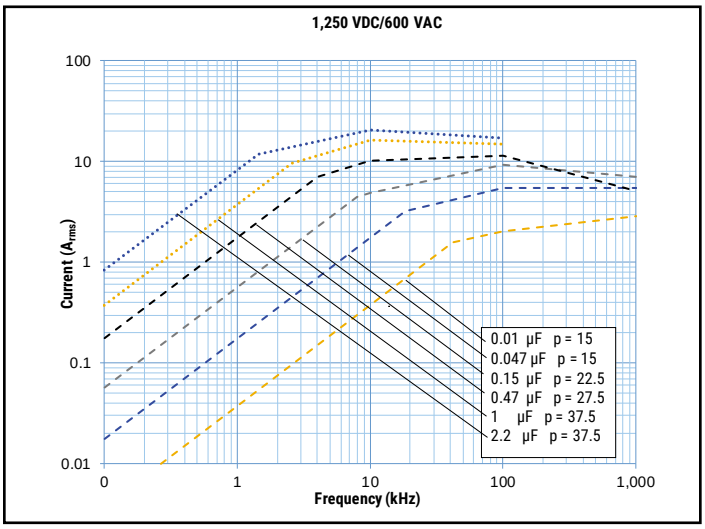


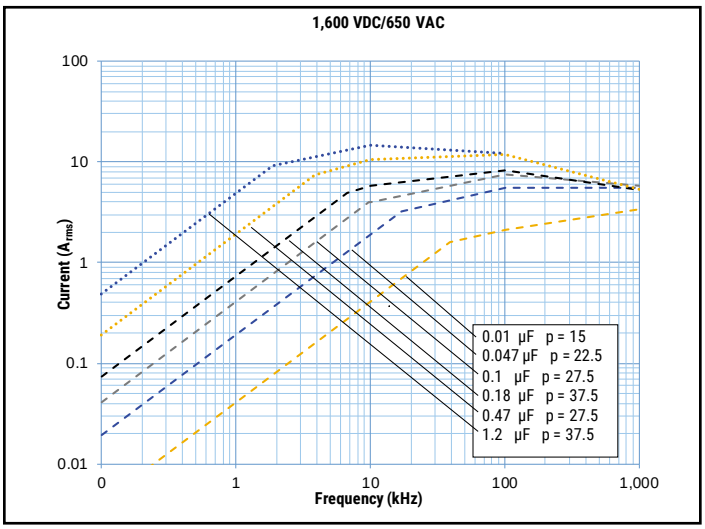


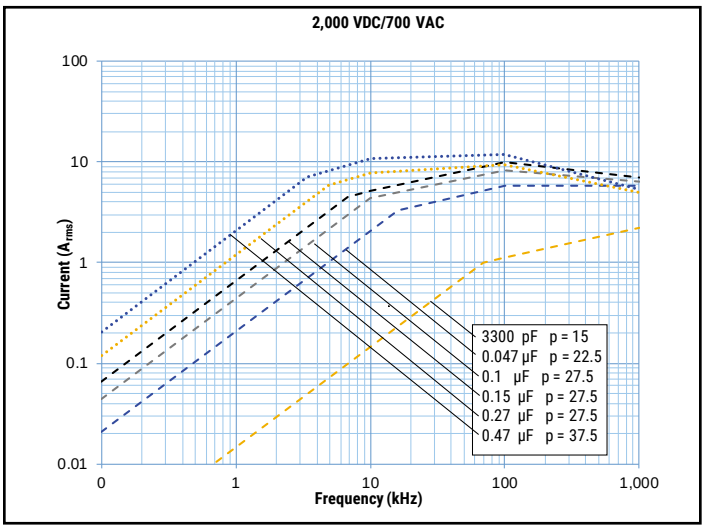
All the curves are evaluated in accordance to the datasheet declarations and considering an environmental condition as Dry Condition (absolute humidity < 30 g/m³).
If your environment is too harsh in terms of temperature and relative humidity, please contact KEMET for any kind of information.

Maximum Current (I_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 90°C) cont.









All the curves are evaluated in accordance to the datasheet declarations and considering an environmental condition as Dry Condition (absolute humidity < 30 g/m³).
If your environment is too harsh in terms of temperature and relative humidity, please contact KEMET for any kind of information.

Environmental Test Data

Damp Heat, Steady State Test	Test Conditions:		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**
	Temperature: Voltage applied: Test duration:	+105°C ±2°C 1.25 x V_R (AC 50/60 Hz, DC) 2,000 hours	|Δ C/C| ≤ 3%, Δ tanδ ≤ 0.001 at 10 kHz for C ≤ 1µF Δ tanδ ≤ 0.001 at 1 kHz for C > 1µF IR after test ≥ 50% of initial limit
	Temperature: Voltage applied: Test duration:	+125°C ±2°C 1.0 x V_{op} (AC 50/60 Hz) 2,000 hours	|Δ C/C| ≤ 5%, Δ tanδ ≤ 0.0015 at 10 kHz for C ≤ 1µF Δ tanδ ≤ 0.0015 at 1 kHz for C > 1µF IR after test ≥ 50% of initial limit
	Temperature: Voltage applied: Test duration:	+125°C ±2°C 1.0 x V_{op} (DC) 2,000 hours	|Δ C/C| ≤ 3%, Δ tanδ ≤ 0.0015 at 10 kHz for C ≤ 1µF Δ tanδ ≤ 0.0015 at 1 kHz for C > 1µF IR after test ≥ 50% of initial limit
	Temperature: Relative humidity (RH): Voltage applied: Test duration:	+60°C ±2°C 93% ±2% 1.0 x V_R (AC 50/60 Hz, DC) 1,000 hours (for lead spacing ≥ 10 mm)	|Δ C/C| ≤ 10%, Δ tanδ ≤ 0.002 at 1 kHz IR after test ≥ 50% of initial limit
	Temperature: Relative humidity (RH): Voltage applied: Test duration:	+85°C ±2°C 85 % ±2% 1.0 x V_R (AC 50/60 Hz, DC) 1,000 hours (for lead spacing ≥ 15 mm)	|Δ C/C| ≤ 10%, Δ tanδ ≤ 0.002 at 1 kHz IR after test ≥ 50% of initial limit
Resistance to Soldering Heat Test	**Test Conditions**		**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 10 kHz for C ≤ 1µF Δ tanδ ≤ 0.001 at 1 kHz for C > 1µF IR after test ≥ initial limit

Environmental Compliance

All KEMET pulse capacitors are RoHS compliant.

Table 1 – Ratings & Part Number Reference

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C			
										nH	mΩ	A_{rms}	(°C/W)		
160	90	0.082	4.0	9.0	13.0	10.0	200	64,000	16	9	19.4	3.62	79	75GF2820(1)H0(2)	R75GF2820(1)H0(2)
160	90	0.1	4.0	9.0	13.0	10.0	200	64,000	20	9	15.9	4.00	79	75GF3100(1)H3(2)	R75GF3100(1)H3(2)
160	90	0.12	5.0	11.0	13.0	10.0	200	64,000	24	9	13.3	4.67	69	75GF3120(1)H0(2)	R75GF3120(1)H0(2)
160	90	0.15	5.0	11.0	13.0	10.0	200	64,000	30	9	10.6	5.22	69	75GF3150(1)H0(2)	R75GF3150(1)H0(2)
160	90	0.18	6.0	12.0	13.0	10.0	200	64,000	36	9	13.3	4.86	64	75GF3180(1)H0(2)	R75GF3180(1)H0(2)
160	90	0.22	6.0	12.0	13.0	10.0	200	64,000	44	9	10.9	5.37	64	75GF3220(1)H3(2)	R75GF3220(1)H3(2)
160	90	0.18	5.0	11.0	18.0	15.0	120	38,400	22	10	13.3	5.00	60	75GI3180(1)H0(2)	R75GI3180(1)H0(2)
160	90	0.22	5.0	11.0	18.0	15.0	120	38,400	26	10	10.9	5.53	60	75GI3220(1)H0(2)	R75GI3220(1)H0(2)
160	90	0.27	6.0	12.0	18.0	15.0	120	38,400	32	10	17.7	4.50	56	75GI3270(1)H0(2)	R75GI3270(1)H0(2)
160	90	0.33	6.0	12.0	18.0	15.0	120	38,400	40	10	14.5	4.97	56	75GI3330(1)H0(2)	R75GI3330(1)H0(2)
160	90	0.39	7.5	13.5	18.0	15.0	120	38,400	47	10	12.2	5.68	51	75GI3390(1)H0(2)	R75GI3390(1)H0(2)
160	90	0.47	7.5	13.5	18.0	15.0	120	38,400	56	10	10.2	6.23	51	75GI3470(1)H0(2)	R75GI3470(1)H0(2)
160	90	0.47	9.0	12.5	18.0	15.0	120	38,400	56	10	10.2	6.30	50	75GI3470(1)H6(2)	R75GI3470(1)H6(2)
160	90	0.56	8.5	14.5	18.0	15.0	120	38,400	67	10	8.5	7.01	48	75GI3560(1)H0(2)	R75GI3560(1)H0(2)
160	90	0.56	9.0	12.5	18.0	15.0	120	38,400	67	10	8.5	6.88	50	75GI3560(1)H6(2)	R75GI3560(1)H6(2)
160	90	0.68	8.5	14.5	18.0	15.0	120	38,400	82	10	7.0	7.72	48	75GI3680(1)H0(2)	R75GI3680(1)H0(2)
160	90	0.68	13.0	12.0	18.0	15.0	120	38,400	82	10	7.0	7.96	45	75GI3680(1)H6(2)	R75GI3680(1)H6(2)
160	90	0.82	10.0	16.0	18.0	15.0	120	38,400	98	10	5.8	8.83	44	75GI3820(1)H0(2)	R75GI3820(1)H0(2)
160	90	1	10.0	16.0	18.0	15.0	120	38,400	120	10	4.8	9.75	44	75GI4100(1)H0(2)	R75GI4100(1)H0(2)
160	90	0.82	7.0	16.0	26.5	22.5	70	22,400	57	16	9.7	7.09	41	75GN3820(1)H0(2)	R75GN3820(1)H0(2)
160	90	1	7.0	16.0	26.5	22.5	70	22,400	70	16	8.0	7.83	41	75GN4100(1)H0(2)	R75GN4100(1)H0(2)
160	90	1.2	8.5	17.0	26.5	22.5	70	22,400	84	16	13.3	6.27	38	75GN4120(1)H0(2)	R75GN4120(1)H0(2)
160	90	1.5	10.0	18.5	26.5	22.5	70	22,400	105	16	10.6	7.26	36	75GN4150(1)H0(2)	R75GN4150(1)H0(2)
160	90	1.8	10.0	18.5	26.5	22.5	70	22,400	126	16	8.8	7.95	36	75GN4180(1)H0(2)	R75GN4180(1)H0(2)
160	90	1.5	9.0	17.0	32.0	27.5	60	19,200	90	18	10.6	7.34	35	75GR4150(1)H0(2)	R75GR4150(1)H0(2)
160	90	1.8	9.0	17.0	32.0	27.5	60	19,200	108	18	8.8	8.05	35	75GR4180(1)H0(2)	R75GR4180(1)H0(2)
160	90	2.2	11.0	20.0	32.0	27.5	60	19,200	132	18	7.2	9.38	31	75GR4220(1)H3(2)	R75GR4220(1)H3(2)
160	90	2.7	11.0	20.0	32.0	27.5	60	19,200	162	18	8.8	8.49	31	75GR4270(1)H0(2)	R75GR4270(1)H0(2)
160	90	3.3	13.0	22.0	32.0	27.5	60	19,200	198	18	7.2	9.75	29	75GR4330(1)H0(2)	R75GR4330(1)H0(2)
160	90	3.9	13.0	22.0	32.0	27.5	60	19,200	234	18	6.1	10.60	29	75GR4390(1)H0(2)	R75GR4390(1)H0(2)
160	90	4.7	13.0	25.0	32.0	27.5	60	19,200	282	18	5.1	11.91	28	75GR4470(1)H3(2)	R75GR4470(1)H3(2)
160	90	5.6	14.0	28.0	32.0	27.5	60	19,200	336	18	4.3	13.41	26	75GR4560(1)H0(2)	R75GR4560(1)H0(2)
160	90	6.8	18.0	33.0	32.0	27.5	60	19,200	408	18	7.0	11.14	23	75GR4680(1)H0(2)	R75GR4680(1)H0(2)
160	90	8.2	18.0	33.0	32.0	27.5	60	19,200	492	18	5.8	12.24	23	75GR4820(1)H0(2)	R75GR4820(1)H0(2)
160	90	10	22.0	37.0	32.0	27.5	60	19,200	600	18	4.8	14.20	21	75GR5100(1)H0(2)	R75GR5100(1)H0(2)
160	90	12	22.0	37.0	32.0	27.5	60	19,200	720	18	4.0	15.56	21	75GR5120(1)H0(2)	R75GR5120(1)H0(2)
160	90	3.3	11.0	22.0	41.5	37.5	35	11,200	116	20	7.2	10.10	27	75GW4330(1)H0(2)	R75GW4330(1)H0(2)
160	90	3.9	11.0	22.0	41.5	37.5	35	11,200	137	20	6.1	10.98	27	75GW4390(1)H0(2)	R75GW4390(1)H0(2)
160	90	4.7	11.0	22.0	41.5	37.5	35	11,200	165	20	5.1	12.05	27	75GW4470(1)H0(2)	R75GW4470(1)H0(2)
160	90	5.6	13.0	24.0	41.5	37.5	35	11,200	196	20	4.3	13.63	25	75GW4560(1)H0(2)	R75GW4560(1)H0(2)
160	90	6.8	16.0	28.5	41.5	37.5	35	11,200	238	20	7.0	11.24	23	75GW4680(1)H0(2)	R75GW4680(1)H0(2)
160	90	8.2	16.0	28.5	41.5	37.5	35	11,200	287	20	5.8	12.34	23	75GW4820(1)H0(2)	R75GW4820(1)H0(2)
160	90	10	19.0	32.0	41.5	37.5	35	11,200	350	20	4.8	14.23	21	75GW5100(1)H0(2)	R75GW5100(1)H0(2)
160	90	12	19.0	32.0	41.5	37.5	35	11,200	420	20	4.0	15.59	21	75GW5120(1)H0(2)	R75GW5120(1)H0(2)
160	90	15	20.0	40.0	41.5	37.5	35	11,200	525	20	3.2	18.30	19	75GW5150(1)H0(2)	R75GW5150(1)H0(2)
160	90	18	20.0	40.0	41.5	37.5	35	11,200	630	20	2.7	20.05	19	75GW5180(1)H0(2)	R75GW5180(1)H0(2)
160	90	22	24.0	44.0	41.5	37.5	35	11,200	770	20	2.2	23.13	17	75GW5220(1)H0(2)	R75GW5220(1)H0(2)
160	90	27	30.0	45.0	41.5	37.5	35	11,200	945	20	1.8	26.57	16	75GW5270(1)H0(2)	R75GW5270(1)H0(2)
160	90	33	30.0	45.0	41.5	37.5	35	11,200	1,155	20	1.4	29.37	16	75GW5330(1)H0(2)	R75GW5330(1)H0(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C	(°C/W)	KEMET Internal Part Number	Customer Part Number
									I_{pkr}	ESL	ESR max	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C			
										nH	mΩ	A_{rms}	(°C/W)		
250	140	0.082	4.0	9.0	13.0	10.0	150	75,000	12	9	19.4	3.62	79	75IF2820(1)HA(2)	R75IF2820(1)HA(2)
250	140	0.1	4.0	9.0	13.0	10.0	150	75,000	15	9	15.9	4.00	79	75IF3100(1)HA(2)	R75IF3100(1)HA(2)
250	140	0.12	5.0	11.0	13.0	10.0	150	75,000	18	9	13.3	4.67	69	75IF3120(1)HA(2)	R75IF3120(1)HA(2)
250	140	0.15	5.0	11.0	13.0	10.0	150	75,000	23	9	10.6	5.22	69	75IF3150(1)HA(2)	R75IF3150(1)HA(2)
250	140	0.18	6.0	12.0	13.0	10.0	150	75,000	27	9	13.3	4.86	64	75IF3180(1)HA(2)	R75IF3180(1)HA(2)
250	140	0.22	6.0	12.0	13.0	10.0	150	75,000	33	9	10.9	5.37	64	75IF3220(1)HA(2)	R75IF3220(1)HA(2)
250	160	0.033	4.0	9.0	13.0	10.0	570	285,000	19	9	33.8	2.75	79	75IF2330(1)H0(2)	R75IF2330(1)H0(2)
250	160	0.039	4.0	9.0	13.0	10.0	570	285,000	22	9	28.6	2.99	79	75IF2390(1)H0(2)	R75IF2390(1)H0(2)
250	160	0.047	4.0	9.0	13.0	10.0	570	285,000	27	9	23.7	3.28	79	75IF2470(1)H3(2)	R75IF2470(1)H3(2)
250	160	0.056	4.0	9.0	13.0	10.0	570	285,000	32	9	28.4	2.99	79	75IF2560(1)H3(2)	R75IF2560(1)H3(2)
250	160	0.068	4.0	9.0	13.0	10.0	570	285,000	39	9	23.4	3.30	79	75IF2680(1)H3(2)	R75IF2680(1)H3(2)
250	160	0.082	5.0	11.0	13.0	10.0	570	285,000	47	9	19.4	3.86	69	75IF2820(1)H3(2)	R75IF2820(1)H3(2)
250	160	0.1	5.0	11.0	13.0	10.0	570	285,000	57	9	15.9	4.27	69	75IF3100(1)H3(2)	R75IF3100(1)H3(2)
250	160	0.12	6.0	12.0	13.0	10.0	570	285,000	68	9	13.3	4.86	64	75IF3120(1)H3(2)	R75IF3120(1)H3(2)
250	160	0.15	6.0	12.0	13.0	10.0	570	285,000	86	9	10.6	5.43	64	75IF3150(1)H3(2)	R75IF3150(1)H3(2)
250	160	0.12	5.0	11.0	18.0	15.0	310	155,000	37	10	13.3	5.00	60	75II3120(1)H3(2)	R75II3120(1)H3(2)
250	160	0.15	5.0	11.0	18.0	15.0	310	155,000	47	10	10.6	5.59	60	75II3150(1)H3(2)	R75II3150(1)H3(2)
250	160	0.18	5.0	11.0	18.0	15.0	310	155,000	56	10	13.3	5.00	60	75II3180(1)H4(2)	R75II3180(1)H4(2)
250	160	0.22	5.0	11.0	18.0	15.0	310	155,000	68	10	10.9	5.53	60	75II3220(1)H4(2)	R75II3220(1)H4(2)
250	160	0.27	6.0	12.0	18.0	15.0	310	155,000	84	10	17.7	4.50	56	75II3270(1)H4(2)	R75II3270(1)H4(2)
250	160	0.33	6.0	12.0	18.0	15.0	310	155,000	102	10	14.5	4.97	56	75II3330(1)H4(2)	R75II3330(1)H4(2)
250	160	0.39	7.5	13.5	18.0	15.0	310	155,000	121	10	12.2	5.68	51	75II3390(1)H4(2)	R75II3390(1)H4(2)
250	160	0.39	9.0	12.5	18.0	15.0	310	155,000	121	10	12.2	5.74	50	75II3390(1)H7(2)	R75II3390(1)H7(2)
250	160	0.47	7.5	13.5	18.0	15.0	310	155,000	146	10	10.2	6.23	51	75II3470(1)H4(2)	R75II3470(1)H4(2)
250	160	0.47	9.0	12.5	18.0	15.0	310	155,000	146	10	10.2	6.30	50	75II3470(1)H8(2)	R75II3470(1)H8(2)
250	160	0.56	7.5	13.5	18.0	15.0	310	155,000	174	10	8.5	6.80	51	75II3560(1)H4(2)	R75II3560(1)H4(2)
250	160	0.56	9.0	12.5	18.0	15.0	310	155,000	174	10	8.5	6.88	50	75II3560(1)H8(2)	R75II3560(1)H8(2)
250	160	0.68	8.5	14.5	18.0	15.0	310	155,000	211	10	7.0	7.72	48	75II3680(1)H4(2)	R75II3680(1)H4(2)
250	160	0.68	13.0	12.0	18.0	15.0	310	155,000	211	10	7.0	7.96	45	75II3680(1)H8(2)	R75II3680(1)H8(2)
250	160	0.82	10.0	16.0	18.0	15.0	310	155,000	254	10	5.8	8.83	44	75II3820(1)H4(2)	R75II3820(1)H4(2)
250	160	0.82	13.0	12.0	18.0	15.0	310	155,000	254	10	5.8	8.75	45	75II3820(1)H8(2)	R75II3820(1)H8(2)
250	160	1	10.0	16.0	18.0	15.0	310	155,000	310	10	4.8	9.75	44	75II4100(1)H4(2)	R75II4100(1)H4(2)
250	160	1.2	11.0	19.0	18.0	15.0	310	155,000	372	10	6.6	8.66	40	75II4120(1)H4(2)	R75II4120(1)H4(2)
250	160	0.39	6.0	15.0	26.5	22.5	130	65,000	51	16	10.2	6.72	43	75IN3390(1)H3(2)	R75IN3390(1)H3(2)
250	160	0.47	6.0	15.0	26.5	22.5	130	65,000	61	16	8.5	7.38	43	75IN3470(1)H3(2)	R75IN3470(1)H3(2)
250	160	0.56	6.0	15.0	26.5	22.5	130	65,000	73	16	11.4	6.37	43	75IN3560(1)H4(2)	R75IN3560(1)H4(2)
250	160	0.68	6.0	15.0	26.5	22.5	130	65,000	88	16	9.4	7.01	43	75IN3680(1)H4(2)	R75IN3680(1)H4(2)
250	160	0.82	7.0	16.0	26.5	22.5	130	65,000	107	16	9.7	7.09	41	75IN3820(1)H4(2)	R75IN3820(1)H4(2)
250	160	1	7.0	16.0	26.5	22.5	130	65,000	130	16	8.0	7.83	41	75IN4100(1)H4(2)	R75IN4100(1)H4(2)
250	160	1.2	8.5	17.0	26.5	22.5	130	65,000	156	16	13.3	6.27	38	75IN4120(1)H4(2)	R75IN4120(1)H4(2)
250	160	1.5	10.0	18.5	26.5	22.5	130	65,000	195	16	10.6	7.26	36	75IN4150(1)H4(2)	R75IN4150(1)H4(2)
250	160	1.8	10.0	18.5	26.5	22.5	130	65,000	234	16	8.8	7.95	36	75IN4180(1)H4(2)	R75IN4180(1)H4(2)
250	160	2.2	11.0	20.0	26.5	22.5	130	65,000	286	16	7.2	9.02	34	75IN4220(1)H4(2)	R75IN4220(1)H4(2)
250	160	2.7	13.0	22.0	26.5	22.5	130	65,000	351	16	8.8	8.49	31	75IN4270(1)H4(2)	R75IN4270(1)H4(2)
250	160	3.3	13.0	22.0	26.5	22.5	130	65,000	429	16	7.2	9.39	31	75IN4330(1)H4(2)	R75IN4330(1)H4(2)
250	160	1	9.0	17.0	32.0	27.5	100	50,000	100	18	8.0	8.48	35	75IR4100(1)H3(2)	R75IR4100(1)H3(2)
250	160	1.2	9.0	17.0	32.0	27.5	100	50,000	120	18	13.3	6.57	35	75IR4120(1)H3(2)	R75IR4120(1)H3(2)
250	160	1.5	9.0	17.0	32.0	27.5	100	50,000	150	18	10.6	7.34	35	75IR4150(1)H4(2)	R75IR4150(1)H4(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C	(°C/W)	KEMET Internal Part Number	Customer Part Number
									I_{pkr}	ESL	ESR max	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 90°C A_{rms}	(°C/W)		
250	160	1.8	9.0	17.0	32.0	27.5	100	50,000	180	18	8.8	8.05	35	75IR4180(1)H4(2)	R75IR4180(1)H4(2)
250	160	2.2	11.0	20.0	32.0	27.5	100	50,000	220	18	7.2	9.38	31	75IR4220(1)H5(2)	R75IR4220(1)H5(2)
250	160	2.7	11.0	20.0	32.0	27.5	100	50,000	270	18	8.8	8.49	31	75IR4270(1)H4(2)	R75IR4270(1)H4(2)
250	160	3.3	13.0	22.0	32.0	27.5	100	50,000	330	18	7.2	9.75	29	75IR4330(1)H4(2)	R75IR4330(1)H4(2)
250	160	3.9	13.0	22.0	32.0	27.5	100	50,000	390	18	6.1	10.60	29	75IR4390(1)H4(2)	R75IR4390(1)H4(2)
250	160	4.7	13.0	25.0	32.0	27.5	100	50,000	470	18	5.1	11.91	28	75IR4470(1)H5(2)	R75IR4470(1)H5(2)
250	160	5.6	14.0	28.0	32.0	27.5	100	50,000	560	18	4.3	13.41	26	75IR4560(1)H4(2)	R75IR4560(1)H4(2)
250	160	6.8	18.0	33.0	32.0	27.5	100	50,000	680	18	7.0	11.14	23	75IR4680(1)H4(2)	R75IR4680(1)H4(2)
250	160	8.2	18.0	33.0	32.0	27.5	100	50,000	820	18	5.8	12.24	23	75IR4820(1)H4(2)	R75IR4820(1)H4(2)
250	160	10	22.0	37.0	32.0	27.5	100	50,000	1,000	18	4.8	14.20	21	75IR5100(1)H4(2)	R75IR5100(1)H4(2)
250	160	12	22.0	37.0	32.0	27.5	100	50,000	1,200	18	4.0	15.56	21	75IR5120(1)H4(2)	R75IR5120(1)H4(2)
250	160	3.3	11.0	22.0	41.5	37.5	40	20,000	132	20	7.2	10.10	27	75IW4330(1)H4(2)	R75IW4330(1)H4(2)
250	160	3.9	11.0	22.0	41.5	37.5	40	20,000	156	20	6.1	10.98	27	75IW4390(1)H4(2)	R75IW4390(1)H4(2)
250	160	4.7	11.0	22.0	41.5	37.5	40	20,000	188	20	5.1	12.05	27	75IW4470(1)H4(2)	R75IW4470(1)H4(2)
250	160	5.6	13.0	24.0	41.5	37.5	40	20,000	224	20	4.3	13.63	25	75IW4560(1)H4(2)	R75IW4560(1)H4(2)
250	160	6.8	16.0	28.5	41.5	37.5	40	20,000	272	20	7.0	11.24	23	75IW4680(1)H4(2)	R75IW4680(1)H4(2)
250	160	8.2	16.0	28.5	41.5	37.5	40	20,000	328	20	5.8	12.34	23	75IW4820(1)H4(2)	R75IW4820(1)H4(2)
250	160	10	19.0	32.0	41.5	37.5	40	20,000	400	20	4.8	14.23	21	75IW5100(1)H4(2)	R75IW5100(1)H4(2)
250	160	12	19.0	32.0	41.5	37.5	40	20,000	480	20	4.0	15.59	21	75IW5120(1)H4(2)	R75IW5120(1)H4(2)
250	160	15	20.0	40.0	41.5	37.5	40	20,000	600	20	3.2	18.30	19	75IW5150(1)H4(2)	R75IW5150(1)H4(2)
250	160	18	20.0	40.0	41.5	37.5	40	20,000	720	20	2.7	20.05	19	75IW5180(1)H4(2)	R75IW5180(1)H4(2)
250	160	22	24.0	44.0	41.5	37.5	40	20,000	880	20	2.2	23.13	17	75IW5220(1)H4(2)	R75IW5220(1)H4(2)
250	160	27	24.0	44.0	41.5	37.5	40	20,000	1,080	20	1.8	25.62	17	75IW5270(1)H4(2)	R75IW5270(1)H4(2)
250	160	33	30.0	45.0	41.5	37.5	40	20,000	1,320	20	1.4	29.37	16	75IW5330(1)H4(2)	R75IW5330(1)H4(2)
400	220	0.015	4.0	9.0	13.0	10.0	1,300	1,040,000	20	9	74.3	1.85	79	75MF2150(1)H0(2)	R75MF2150(1)H0(2)
400	220	0.018	4.0	9.0	13.0	10.0	1,300	1,040,000	23	9	61.9	2.03	79	75MF2180(1)H0(2)	R75MF2180(1)H0(2)
400	220	0.022	4.0	9.0	13.0	10.0	1,300	1,040,000	29	9	50.6	2.24	79	75MF2220(1)H3(2)	R75MF2220(1)H3(2)
400	220	0.027	4.0	9.0	13.0	10.0	1,300	1,040,000	35	9	41.3	2.48	79	75MF2270(1)H3(2)	R75MF2270(1)H3(2)
400	220	0.033	4.0	9.0	13.0	10.0	1,300	1,040,000	43	9	33.8	2.75	79	75MF2330(1)H4(2)	R75MF2330(1)H4(2)
400	220	0.033	5.0	11.0	13.0	10.0	1,300	1,040,000	43	9	33.8	2.93	69	75MF2330(1)H3(2)	R75MF2330(1)H3(2)
400	220	0.039	5.0	11.0	13.0	10.0	1,300	1,040,000	51	9	28.6	3.18	69	75MF2390(1)H3(2)	R75MF2390(1)H3(2)
400	220	0.047	5.0	11.0	13.0	10.0	1,300	1,040,000	61	9	23.7	3.50	69	75MF2470(1)H3(2)	R75MF2470(1)H3(2)
400	220	0.056	5.0	11.0	13.0	10.0	1,300	1,040,000	73	9	28.4	3.19	69	75MF2560(1)H4(2)	R75MF2560(1)H4(2)
400	220	0.056	6.0	12.0	13.0	10.0	1,300	1,040,000	73	9	28.4	3.32	64	75MF2560(1)H3(2)	R75MF2560(1)H3(2)
400	220	0.068	5.0	11.0	13.0	10.0	1,300	1,040,000	88	9	23.4	3.52	69	75MF2680(1)H4(2)	R75MF2680(1)H4(2)
400	220	0.068	6.0	12.0	13.0	10.0	1,300	1,040,000	88	9	23.4	3.66	64	75MF2680(1)H3(2)	R75MF2680(1)H3(2)
400	220	0.1	6.0	12.0	13.0	10.0	1,300	1,040,000	130	9	15.9	4.44	64	75MF3100(1)H4(2)	R75MF3100(1)H4(2)
400	220	0.068	5.0	11.0	18.0	15.0	900	720,000	61	10	23.4	3.77	60	75MI2680(1)H3(2)	R75MI2680(1)H3(2)
400	220	0.082	5.0	11.0	18.0	15.0	900	720,000	74	10	19.4	4.14	60	75MI2820(1)H3(2)	R75MI2820(1)H3(2)
400	220	0.1	5.0	11.0	18.0	15.0	900	720,000	90	10	15.9	4.57	60	75MI3100(1)H3(2)	R75MI3100(1)H3(2)
400	220	0.12	6.0	12.0	18.0	15.0	900	720,000	108	10	13.3	5.19	56	75MI3120(1)H3(2)	R75MI3120(1)H3(2)
400	220	0.15	6.0	12.0	18.0	15.0	900	720,000	135	10	10.6	5.81	56	75MI3150(1)H3(2)	R75MI3150(1)H3(2)
400	220	0.18	7.5	13.5	18.0	15.0	900	720,000	162	10	13.3	5.45	51	75MI3180(1)H3(2)	R75MI3180(1)H3(2)
400	220	0.22	7.5	13.5	18.0	15.0	900	720,000	198	10	10.9	6.03	51	75MI3220(1)H3(2)	R75MI3220(1)H3(2)
400	220	0.22	9.0	12.5	18.0	15.0	900	720,000	198	10	10.9	6.10	50	75MI3220(1)H7(2)	R75MI3220(1)H7(2)
400	220	0.27	8.5	14.5	18.0	15.0	900	720,000	243	10	17.7	4.87	48	75MI3270(1)H3(2)	R75MI3270(1)H3(2)
400	220	0.27	9.0	12.5	18.0	15.0	900	720,000	243	10	17.7	4.77	50	75MI3270(1)H7(2)	R75MI3270(1)H7(2)
400	220	0.33	8.5	14.5	18.0	15.0	900	720,000	297	10	14.5	5.38	48	75MI3330(1)H4(2)	R75MI3330(1)H4(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz, 90°C / I_{rms} max (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 90°C A_{rms}	(°C/W)		
400	220	0.33	10.0	16.0	18.0	15.0	900	720,000	297	10	14.5	5.60	44	75MI3330(1)H3(2)	R75MI3330(1)H3(2)
400	220	0.33	13.0	12.0	18.0	15.0	900	720,000	297	10	14.5	5.55	45	75MI3330(1)H7(2)	R75MI3330(1)H7(2)
400	220	0.39	10.0	16.0	18.0	15.0	900	720,000	351	10	12.2	6.09	44	75MI3390(1)H3(2)	R75MI3390(1)H3(2)
400	220	0.47	10.0	16.0	18.0	15.0	900	720,000	423	10	10.2	6.68	44	75MI3470(1)H3(2)	R75MI3470(1)H3(2)
400	220	0.56	11.0	19.0	18.0	15.0	900	720,000	504	10	8.5	7.63	40	75MI3560(1)H3(2)	R75MI3560(1)H3(2)
400	220	0.68	11.0	19.0	18.0	15.0	900	720,000	612	10	7.0	8.41	40	75MI3680(1)H4(2)	R75MI3680(1)H4(2)
400	220	0.18	6.0	15.0	26.5	22.5	300	240,000	54	16	15.0	5.54	43	75MN3180(1)H3(2)	R75MN3180(1)H3(2)
400	220	0.22	6.0	15.0	26.5	22.5	300	240,000	66	16	12.3	6.12	43	75MN3220(1)H3(2)	R75MN3220(1)H3(2)
400	220	0.27	6.0	15.0	26.5	22.5	300	240,000	81	16	11.8	6.25	43	75MN3270(1)H3(2)	R75MN3270(1)H3(2)
400	220	0.33	6.0	15.0	26.5	22.5	300	240,000	99	16	9.6	6.91	43	75MN3330(1)H3(2)	R75MN3330(1)H3(2)
400	220	0.39	7.0	16.0	26.5	22.5	300	240,000	117	16	10.2	6.91	41	75MN3390(1)H3(2)	R75MN3390(1)H3(2)
400	220	0.47	7.0	16.0	26.5	22.5	300	240,000	141	16	8.5	7.59	41	75MN3470(1)H3(2)	R75MN3470(1)H3(2)
400	220	0.56	8.5	17.0	26.5	22.5	300	240,000	168	16	11.4	6.77	38	75MN3560(1)H3(2)	R75MN3560(1)H3(2)
400	220	0.68	10.0	18.5	26.5	22.5	300	240,000	204	16	9.4	7.73	36	75MN3680(1)H3(2)	R75MN3680(1)H3(2)
400	220	0.82	10.0	18.5	26.5	22.5	300	240,000	246	16	9.7	7.59	36	75MN3820(1)H3(2)	R75MN3820(1)H3(2)
400	220	1	11.0	20.0	26.5	22.5	300	240,000	300	16	8.0	8.60	34	75MN4100(1)H3(2)	R75MN4100(1)H3(2)
400	220	1.2	13.0	22.0	26.5	22.5	300	240,000	360	16	13.3	6.93	31	75MN4120(1)H3(2)	R75MN4120(1)H3(2)
400	220	1.5	13.0	22.0	26.5	22.5	300	240,000	450	16	10.6	7.75	31	75MN4150(1)H3(2)	R75MN4150(1)H3(2)
400	220	0.56	9.0	17.0	32.0	27.5	130	104,000	73	18	11.4	7.10	35	75MR3560(1)H3(2)	R75MR3560(1)H3(2)
400	220	0.68	9.0	17.0	32.0	27.5	130	104,000	88	18	9.4	7.82	35	75MR3680(1)H3(2)	R75MR3680(1)H3(2)
400	220	0.82	9.0	17.0	32.0	27.5	130	104,000	107	18	9.7	7.68	35	75MR3820(1)H3(2)	R75MR3820(1)H3(2)
400	220	1	11.0	20.0	32.0	27.5	130	104,000	130	18	8.0	8.95	31	75MR4100(1)H4(2)	R75MR4100(1)H4(2)
400	220	1.2	11.0	20.0	32.0	27.5	130	104,000	156	18	13.3	6.93	31	75MR4120(1)H3(2)	R75MR4120(1)H3(2)
400	220	1.5	13.0	22.0	32.0	27.5	130	104,000	195	18	10.6	8.05	29	75MR4150(1)H3(2)	R75MR4150(1)H3(2)
400	220	1.8	13.0	22.0	32.0	27.5	130	104,000	234	18	8.8	8.82	29	75MR4180(1)H3(2)	R75MR4180(1)H3(2)
400	220	2.2	13.0	25.0	32.0	27.5	130	104,000	286	18	7.2	9.98	28	75MR4220(1)H4(2)	R75MR4220(1)H4(2)
400	220	2.7	14.0	28.0	32.0	27.5	130	104,000	351	18	8.8	9.31	26	75MR4270(1)H3(2)	R75MR4270(1)H3(2)
400	220	3.3	18.0	33.0	32.0	27.5	130	104,000	429	18	7.2	10.98	23	75MR4330(1)H3(2)	R75MR4330(1)H3(2)
400	220	3.9	18.0	33.0	32.0	27.5	130	104,000	507	18	6.1	11.93	23	75MR4390(1)H3(2)	R75MR4390(1)H3(2)
400	220	4.7	22.0	37.0	32.0	27.5	130	104,000	611	18	5.1	13.77	21	75MR4470(1)H3(2)	R75MR4470(1)H3(2)
400	220	5.6	22.0	37.0	32.0	27.5	130	104,000	728	18	4.3	15.03	21	75MR4560(1)H3(2)	R75MR4560(1)H3(2)
400	220	1.2	11.0	22.0	41.5	37.5	70	56,000	84	20	13.3	7.46	27	75MW4120(1)H3(2)	R75MW4120(1)H3(2)
400	220	1.5	11.0	22.0	41.5	37.5	70	56,000	105	20	10.6	8.34	27	75MW4150(1)H3(2)	R75MW4150(1)H3(2)
400	220	1.8	11.0	22.0	41.5	37.5	70	56,000	126	20	8.8	9.14	27	75MW4180(1)H3(2)	R75MW4180(1)H3(2)
400	220	2.2	11.0	22.0	41.5	37.5	70	56,000	154	20	7.2	10.10	27	75MW4220(1)H3(2)	R75MW4220(1)H3(2)
400	220	2.7	13.0	24.0	41.5	37.5	70	56,000	189	20	8.8	9.46	25	75MW4270(1)H3(2)	R75MW4270(1)H3(2)
400	220	3.3	16.0	28.5	41.5	37.5	70	56,000	231	20	7.2	11.07	23	75MW4330(1)H3(2)	R75MW4330(1)H3(2)
400	220	3.9	16.0	28.5	41.5	37.5	70	56,000	273	20	6.1	12.04	23	75MW4390(1)H3(2)	R75MW4390(1)H3(2)
400	220	4.7	19.0	32.0	41.5	37.5	70	56,000	329	20	5.1	13.80	21	75MW4470(1)H3(2)	R75MW4470(1)H3(2)
400	220	5.6	19.0	32.0	41.5	37.5	70	56,000	392	20	4.3	15.06	21	75MW4560(1)H3(2)	R75MW4560(1)H3(2)
400	220	6.8	20.0	40.0	41.5	37.5	70	56,000	476	20	7.0	12.32	19	75MW4680(1)H2(2)	R75MW4680(1)H2(2)
400	220	8.2	20.0	40.0	41.5	37.5	70	56,000	574	20	5.8	13.53	19	75MW4820(1)H3(2)	R75MW4820(1)H3(2)
400	220	10	24.0	44.0	41.5	37.5	70	56,000	700	20	4.8	15.59	17	75MW5100(1)H3(2)	R75MW5100(1)H3(2)
400	220	12	30.0	45.0	41.5	37.5	70	56,000	840	20	4.0	17.71	16	75MW5120(1)H2(2)	R75MW5120(1)H2(2)
400	220	15	30.0	45.0	41.5	37.5	70	56,000	1,050	20	3.2	19.80	16	75MW5150(1)H3(2)	R75MW5150(1)H3(2)
630	250	0.0047	4.0	9.0	13.0	10.0	2,000	2,520,000	9	9	169.3	0.74	79	75PF1470(1)H0(2)	R75PF1470(1)H0(2)
630	250	0.0056	4.0	9.0	13.0	10.0	2,000	2,520,000	11	9	142.1	0.88	79	75PF1560(1)H0(2)	R75PF1560(1)H0(2)
630	250	0.0068	4.0	9.0	13.0	10.0	2,000	2,520,000	14	9	117.0	1.07	79	75PF1680(1)H0(2)	R75PF1680(1)H0(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz, 90°C / I_{rms} max (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C	(°C/W)		
										nH	mΩ	A_{rms}			
630	250	0.0082	4.0	9.0	13.0	10.0	2,000	2,520,000	16	9	97.0	1.29	79	75PF1820(1)H0(2)	R75PF1820(1)H0(2)
630	250	0.01	4.0	9.0	13.0	10.0	2,000	2,520,000	20	9	79.6	1.57	79	75PF2100(1)H3(2)	R75PF2100(1)H3(2)
630	250	0.012	4.0	9.0	13.0	10.0	2,000	2,520,000	24	9	92.8	1.66	79	75PF2120(1)H3(2)	R75PF2120(1)H3(2)
630	250	0.015	4.0	9.0	13.0	10.0	2,000	2,520,000	30	9	74.3	1.85	79	75PF2150(1)H4(2)	R75PF2150(1)H4(2)
630	250	0.015	5.0	11.0	13.0	10.0	2,000	2,520,000	30	9	74.3	1.97	69	75PF2150(1)H3(2)	R75PF2150(1)H3(2)
630	250	0.018	5.0	11.0	13.0	10.0	2,000	2,520,000	36	9	61.9	2.16	69	75PF2180(1)H3(2)	R75PF2180(1)H3(2)
630	250	0.022	5.0	11.0	13.0	10.0	2,000	2,520,000	44	9	50.6	2.39	69	75PF2220(1)H4(2)	R75PF2220(1)H4(2)
630	250	0.022	6.0	12.0	13.0	10.0	2,000	2,520,000	44	9	50.6	2.49	64	75PF2220(1)H3(2)	R75PF2220(1)H3(2)
630	250	0.033	5.0	11.0	13.0	10.0	2,000	2,520,000	66	9	33.8	2.93	69	75PF2330(1)H4(2)	R75PF2330(1)H4(2)
630	250	0.047	6.0	12.0	13.0	10.0	2,000	2,520,000	94	9	23.7	3.63	64	75PF2470(1)H4(2)	R75PF2470(1)H4(2)
630	250	0.056	6.0	12.0	13.0	10.0	2,000	2,520,000	112	9	28.4	3.32	64	75PF2560(1)H4(2)	R75PF2560(1)H4(2)
630	250	0.027	5.0	11.0	18.0	15.0	1,000	1,260,000	27	10	41.3	2.84	60	75PI2270(1)H0(2)	R75PI2270(1)H0(2)
630	250	0.033	5.0	11.0	18.0	15.0	1,000	1,260,000	33	10	33.8	3.14	60	75PI2330(1)H0(2)	R75PI2330(1)H0(2)
630	250	0.039	5.0	11.0	18.0	15.0	1,000	1,260,000	39	10	28.6	3.41	60	75PI2390(1)H3(2)	R75PI2390(1)H3(2)
630	250	0.047	5.0	11.0	18.0	15.0	1,000	1,260,000	47	10	23.7	3.74	60	75PI2470(1)H3(2)	R75PI2470(1)H3(2)
630	250	0.056	5.0	11.0	18.0	15.0	1,000	1,260,000	56	10	28.4	3.42	60	75PI2560(1)H3(2)	R75PI2560(1)H3(2)
630	250	0.068	6.0	12.0	18.0	15.0	1,000	1,260,000	68	10	23.4	3.91	56	75PI2680(1)H3(2)	R75PI2680(1)H3(2)
630	250	0.082	6.0	12.0	18.0	15.0	1,000	1,260,000	82	10	19.4	4.29	56	75PI2820(1)H3(2)	R75PI2820(1)H3(2)
630	250	0.1	7.5	13.5	18.0	15.0	1,000	1,260,000	100	10	15.9	4.98	51	75PI3100(1)H3(2)	R75PI3100(1)H3(2)
630	250	0.1	9.0	12.5	18.0	15.0	1,000	1,260,000	100	10	15.9	5.03	50	75PI3100(1)H7(2)	R75PI3100(1)H7(2)
630	250	0.12	7.5	13.5	18.0	15.0	1,000	1,260,000	120	10	13.3	5.45	51	75PI3120(1)H3(2)	R75PI3120(1)H3(2)
630	250	0.12	9.0	12.5	18.0	15.0	1,000	1,260,000	120	10	13.3	5.51	50	75PI3120(1)H7(2)	R75PI3120(1)H7(2)
630	250	0.15	8.5	14.5	18.0	15.0	1,000	1,260,000	150	10	10.6	6.28	48	75PI3150(1)H3(2)	R75PI3150(1)H3(2)
630	250	0.15	13.0	12.0	18.0	15.0	1,000	1,260,000	150	10	10.6	6.48	45	75PI3150(1)H7(2)	R75PI3150(1)H7(2)
630	250	0.18	10.0	16.0	18.0	15.0	1,000	1,260,000	180	10	13.3	5.85	44	75PI3180(1)H3(2)	R75PI3180(1)H3(2)
630	250	0.18	13.0	12.0	18.0	15.0	1,000	1,260,000	180	10	13.3	5.80	45	75PI3180(1)H7(2)	R75PI3180(1)H7(2)
630	250	0.22	10.0	16.0	18.0	15.0	1,000	1,260,000	220	10	10.9	6.47	44	75PI3220(1)H3(2)	R75PI3220(1)H3(2)
630	250	0.27	11.0	19.0	18.0	15.0	1,000	1,260,000	270	10	17.7	5.30	40	75PI3270(1)H3(2)	R75PI3270(1)H3(2)
630	250	0.33	11.0	19.0	18.0	15.0	1,000	1,260,000	330	10	14.5	5.86	40	75PI3330(1)H3(2)	R75PI3330(1)H3(2)
630	250	0.39	11.0	19.0	18.0	15.0	1,000	1,260,000	390	10	12.2	6.37	40	75PI3390(1)H4(2)	R75PI3390(1)H4(2)
630	250	0.082	6.0	15.0	26.5	22.5	400	504,000	33	16	33.0	3.74	43	75PN2820(1)H3(2)	R75PN2820(1)H3(2)
630	250	0.1	6.0	15.0	26.5	22.5	400	504,000	40	16	27.1	4.13	43	75PN3100(1)H3(2)	R75PN3100(1)H3(2)
630	250	0.12	6.0	15.0	26.5	22.5	400	504,000	48	16	22.5	4.52	43	75PN3120(1)H3(2)	R75PN3120(1)H3(2)
630	250	0.15	6.0	15.0	26.5	22.5	400	504,000	60	16	18.0	5.05	43	75PN3150(1)H3(2)	R75PN3150(1)H3(2)
630	250	0.18	7.0	16.0	26.5	22.5	400	504,000	72	16	15.0	5.69	41	75PN3180(1)H3(2)	R75PN3180(1)H3(2)
630	250	0.22	7.0	16.0	26.5	22.5	400	504,000	88	16	12.3	6.30	41	75PN3220(1)H3(2)	R75PN3220(1)H3(2)
630	250	0.27	8.5	17.0	26.5	22.5	400	504,000	108	16	11.8	6.65	38	75PN3270(1)H3(2)	R75PN3270(1)H3(2)
630	250	0.33	10.0	18.5	26.5	22.5	400	504,000	132	16	9.6	7.61	36	75PN3330(1)H3(2)	R75PN3330(1)H3(2)
630	250	0.39	10.0	18.5	26.5	22.5	400	504,000	156	16	10.2	7.40	36	75PN3390(1)H3(2)	R75PN3390(1)H3(2)
630	250	0.47	11.0	20.0	26.5	22.5	400	504,000	188	16	8.5	8.34	34	75PN3470(1)H3(2)	R75PN3470(1)H3(2)
630	250	0.56	11.0	20.0	26.5	22.5	400	504,000	224	16	11.4	7.20	34	75PN3560(1)H3(2)	R75PN3560(1)H3(2)
630	250	0.68	13.0	22.0	26.5	22.5	400	504,000	272	16	9.4	8.25	31	75PN3680(1)H3(2)	R75PN3680(1)H3(2)
630	250	0.39	9.0	17.0	32.0	27.5	180	226,800	70	18	10.2	7.49	35	75PR3390(1)H3(2)	R75PR3390(1)H3(2)
630	250	0.47	9.0	17.0	32.0	27.5	180	226,800	85	18	8.5	8.22	35	75PR3470(1)H4(2)	R75PR3470(1)H4(2)
630	250	0.56	11.0	20.0	32.0	27.5	180	226,800	101	18	11.4	7.49	31	75PR3560(1)H3(2)	R75PR3560(1)H3(2)
630	250	0.68	11.0	20.0	32.0	27.5	180	226,800	122	18	9.4	8.25	31	75PR3680(1)H3(2)	R75PR3680(1)H3(2)
630	250	0.82	13.0	22.0	32.0	27.5	180	226,800	148	18	9.7	8.42	29	75PR3820(1)H3(2)	R75PR3820(1)H3(2)
630	250	1	13.0	22.0	32.0	27.5	180	226,800	180	18	8.0	9.30	29	75PR4100(1)H3(2)	R75PR4100(1)H3(2)

VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C	(°C/W)	KEMET Internal Part Number	Customer Part Number
									I_{pkr}	ESL	ESR max	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 90°C A_{rms}	(°C/W)		
630	250	1.2	14.0	28.0	32.0	27.5	180	226,800	216	18	13.3	7.60	26	75PR4120(1)H4(2)	R75PR4120(1)H4(2)
630	250	1.5	14.0	28.0	32.0	27.5	180	226,800	270	18	10.6	8.50	26	75PR4150(1)H3(2)	R75PR4150(1)H3(2)
630	250	1.8	18.0	33.0	32.0	27.5	180	226,800	324	18	8.8	9.93	23	75PR4180(1)H3(2)	R75PR4180(1)H3(2)
630	250	2.2	18.0	33.0	32.0	27.5	180	226,800	396	18	7.2	10.98	23	75PR4220(1)H3(2)	R75PR4220(1)H3(2)
630	250	2.7	22.0	37.0	32.0	27.5	180	226,800	486	18	8.8	10.44	21	75PR4270(1)H3(2)	R75PR4270(1)H3(2)
630	250	3.3	22.0	37.0	32.0	27.5	180	226,800	594	18	7.2	11.54	21	75PR4330(1)H3(2)	R75PR4330(1)H3(2)
630	250	0.68	11.0	22.0	41.5	37.5	90	113,400	61	20	9.4	8.88	27	75PW3680(1)H3(2)	R75PW3680(1)H3(2)
630	250	0.82	11.0	22.0	41.5	37.5	90	113,400	74	20	9.7	8.72	27	75PW3820(1)H3(2)	R75PW3820(1)H3(2)
630	250	1	11.0	22.0	41.5	37.5	90	113,400	90	20	8.0	9.63	27	75PW4100(1)H3(2)	R75PW4100(1)H3(2)
630	250	1.2	13.0	24.0	41.5	37.5	90	113,400	108	20	13.3	7.73	25	75PW4120(1)H3(2)	R75PW4120(1)H3(2)
630	250	1.5	13.0	24.0	41.5	37.5	90	113,400	135	20	10.6	8.64	25	75PW4150(1)H3(2)	R75PW4150(1)H3(2)
630	250	1.8	16.0	28.5	41.5	37.5	90	113,400	162	20	8.8	10.02	23	75PW4180(1)H3(2)	R75PW4180(1)H3(2)
630	250	2.2	16.0	28.5	41.5	37.5	90	113,400	198	20	7.2	11.07	23	75PW4220(1)H3(2)	R75PW4220(1)H3(2)
630	250	2.7	19.0	32.0	41.5	37.5	90	113,400	243	20	8.8	10.46	21	75PW4270(1)H3(2)	R75PW4270(1)H3(2)
630	250	3.3	19.0	32.0	41.5	37.5	90	113,400	297	20	7.2	11.56	21	75PW4330(1)H3(2)	R75PW4330(1)H3(2)
630	250	3.9	20.0	40.0	41.5	37.5	90	113,400	351	20	6.1	13.20	19	75PW4390(1)H3(2)	R75PW4390(1)H3(2)
630	250	4.7	20.0	40.0	41.5	37.5	90	113,400	423	20	5.1	14.49	19	75PW4470(1)H3(2)	R75PW4470(1)H3(2)
630	250	5.6	24.0	44.0	41.5	37.5	90	113,400	504	20	4.3	16.50	17	75PW4560(1)H3(2)	R75PW4560(1)H3(2)
630	250	6.8	30.0	45.0	41.5	37.5	90	113,400	612	20	7.0	13.33	16	75PW4680(1)H2(2)	R75PW4680(1)H2(2)
630	250	8.2	30.0	45.0	41.5	37.5	90	113,400	738	20	5.8	14.64	16	75PW4820(1)H3(2)	R75PW4820(1)H3(2)
1000	250	0.01	5.0	11.0	18.0	15.0	2,000	4,000,000	20	10	79.6	1.57	60	75QI2100(1)H4(2)	R75QI2100(1)H4(2)
1000	250	0.012	5.0	11.0	18.0	15.0	2,000	4,000,000	24	10	92.8	1.88	60	75QI2120(1)H0(2)	R75QI2120(1)H0(2)
1000	250	0.015	5.0	11.0	18.0	15.0	2,000	4,000,000	30	10	74.3	2.11	60	75QI2150(1)H0(2)	R75QI2150(1)H0(2)
1000	250	0.018	5.0	11.0	18.0	15.0	2,000	4,000,000	36	10	61.9	2.32	60	75QI2180(1)H0(2)	R75QI2180(1)H0(2)
1000	250	0.022	5.0	11.0	18.0	15.0	2,000	4,000,000	44	10	50.6	2.56	60	75QI2220(1)H0(2)	R75QI2220(1)H0(2)
1000	250	0.027	6.0	12.0	18.0	15.0	2,000	4,000,000	54	10	41.3	2.94	56	75QI2270(1)H0(2)	R75QI2270(1)H0(2)
1000	250	0.033	6.0	12.0	18.0	15.0	2,000	4,000,000	66	10	33.8	3.25	56	75QI2330(1)H0(2)	R75QI2330(1)H0(2)
1000	250	0.039	6.0	12.0	18.0	15.0	2,000	4,000,000	78	10	28.6	3.54	56	75QI2390(1)H0(2)	R75QI2390(1)H0(2)
1000	250	0.047	7.5	13.5	18.0	15.0	2,000	4,000,000	94	10	23.7	4.08	51	75QI2470(1)H0(2)	R75QI2470(1)H0(2)
1000	250	0.047	9.0	12.5	18.0	15.0	2,000	4,000,000	94	10	23.7	4.12	50	75QI2470(1)H6(2)	R75QI2470(1)H6(2)
1000	250	0.056	8.5	14.5	18.0	15.0	2,000	4,000,000	112	10	28.4	3.84	48	75QI2560(1)H0(2)	R75QI2560(1)H0(2)
1000	250	0.056	9.0	12.5	18.0	15.0	2,000	4,000,000	112	10	28.4	3.77	50	75QI2560(1)H6(2)	R75QI2560(1)H6(2)
1000	250	0.068	8.5	14.5	18.0	15.0	2,000	4,000,000	136	10	23.4	4.23	48	75QI2680(1)H0(2)	R75QI2680(1)H0(2)
1000	250	0.068	13.0	12.0	18.0	15.0	2,000	4,000,000	136	10	23.4	4.36	45	75QI2680(1)H6(2)	R75QI2680(1)H6(2)
1000	250	0.082	10.0	16.0	18.0	15.0	2,000	4,000,000	164	10	19.4	4.83	44	75QI2820(1)H0(2)	R75QI2820(1)H0(2)
1000	250	0.1	10.0	16.0	18.0	15.0	2,000	4,000,000	200	10	15.9	5.34	44	75QI3100(1)H4(2)	R75QI3100(1)H4(2)
1000	250	0.1	11.0	19.0	18.0	15.0	2,000	4,000,000	200	10	15.9	5.59	40	75QI3100(1)H0(2)	R75QI3100(1)H0(2)
1000	250	0.15	11.0	19.0	18.0	15.0	2,000	4,000,000	300	10	10.6	6.84	40	75QI3150(1)H4(2)	R75QI3150(1)H4(2)
1000	250	0.047	6.0	15.0	26.5	22.5	800	1,600,000	38	16	50.8	3.01	43	75QN2470(1)H0(2)	R75QN2470(1)H0(2)
1000	250	0.056	6.0	15.0	26.5	22.5	800	1,600,000	45	16	48.3	3.09	43	75QN2560(1)H0(2)	R75QN2560(1)H0(2)
1000	250	0.068	6.0	15.0	26.5	22.5	800	1,600,000	54	16	39.8	3.40	43	75QN2680(1)H0(2)	R75QN2680(1)H0(2)
1000	250	0.082	7.0	16.0	26.5	22.5	800	1,600,000	66	16	33.0	3.84	41	75QN2820(1)H0(2)	R75QN2820(1)H0(2)
1000	250	0.1	7.0	16.0	26.5	22.5	800	1,600,000	80	16	27.1	4.24	41	75QN3100(1)H0(2)	R75QN3100(1)H0(2)
1000	250	0.12	8.5	17.0	26.5	22.5	800	1,600,000	96	16	22.5	4.81	38	75QN3120(1)H0(2)	R75QN3120(1)H0(2)
1000	250	0.15	10.0	18.5	26.5	22.5	800	1,600,000	120	16	18.0	5.57	36	75QN3150(1)H0(2)	R75QN3150(1)H0(2)
1000	250	0.18	10.0	18.5	26.5	22.5	800	1,600,000	144	16	15.0	6.10	36	75QN3180(1)H0(2)	R75QN3180(1)H0(2)
1000	250	0.22	11.0	20.0	26.5	22.5	800	1,600,000	176	16	12.3	6.92	34	75QN3220(1)H0(2)	R75QN3220(1)H0(2)
1000	250	0.15	9.0	17.0	32.0	27.5	350	700,000	53	18	18.0	5.63	35	75QR3150(1)H0(2)	R75QR3150(1)H0(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz, 90°C / I_{rms} max (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T$ = 90°C + 20°C = 110°C

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 90°C A_{rms}	(°C/W)		
1000	250	0.18	9.0	17.0	32.0	27.5	350	700,000	63	18	15.0	6.17	35	75QR3180(1)H0(2)	R75QR3180(1)H0(2)
1000	250	0.22	11.0	20.0	32.0	27.5	350	700,000	77	18	12.3	7.20	31	75QR3220(1)H1(2)	R75QR3220(1)H1(2)
1000	250	0.27	11.0	20.0	32.0	27.5	350	700,000	95	18	11.8	7.35	31	75QR3270(1)H0(2)	R75QR3270(1)H0(2)
1000	250	0.33	13.0	22.0	32.0	27.5	350	700,000	116	18	9.6	8.44	29	75QR3330(1)H0(2)	R75QR3330(1)H0(2)
1000	250	0.39	13.0	22.0	32.0	27.5	350	700,000	137	18	10.2	8.21	29	75QR3390(1)H0(2)	R75QR3390(1)H0(2)
1000	250	0.47	13.0	25.0	32.0	27.5	350	700,000	165	18	8.5	9.23	28	75QR3470(1)H1(2)	R75QR3470(1)H1(2)
1000	250	0.56	14.0	28.0	32.0	27.5	350	700,000	196	18	11.4	8.21	26	75QR3560(1)H1(2)	R75QR3560(1)H1(2)
1000	250	0.68	18.0	33.0	32.0	27.5	350	700,000	238	18	9.4	9.65	23	75QR3680(1)H0(2)	R75QR3680(1)H0(2)
1000	250	0.82	18.0	33.0	32.0	27.5	350	700,000	287	18	9.7	9.48	23	75QR3820(1)H0(2)	R75QR3820(1)H0(2)
1000	250	1	18.0	33.0	32.0	27.5	350	700,000	350	18	8.0	10.47	23	75QR4100(1)H0(2)	R75QR4100(1)H0(2)
1000	250	1.2	22.0	37.0	32.0	27.5	350	700,000	420	18	13.3	8.52	21	75QR4120(1)H0(2)	R75QR4120(1)H0(2)
1000	250	1.5	22.0	37.0	32.0	27.5	350	700,000	525	18	10.6	9.53	21	75QR4150(1)H0(2)	R75QR4150(1)H0(2)
1000	250	0.27	11.0	22.0	41.5	37.5	200	400,000	54	20	11.8	7.91	27	75QW3270(1)H0(2)	R75QW3270(1)H0(2)
1000	250	0.33	11.0	22.0	41.5	37.5	200	400,000	66	20	9.6	8.75	27	75QW3330(1)H0(2)	R75QW3330(1)H0(2)
1000	250	0.39	11.0	22.0	41.5	37.5	200	400,000	78	20	10.2	8.50	27	75QW3390(1)H0(2)	R75QW3390(1)H0(2)
1000	250	0.47	11.0	22.0	41.5	37.5	200	400,000	94	20	8.5	9.34	27	75QW3470(1)H0(2)	R75QW3470(1)H0(2)
1000	250	0.56	13.0	24.0	41.5	37.5	200	400,000	112	20	11.4	8.35	25	75QW3560(1)H0(2)	R75QW3560(1)H0(2)
1000	250	0.68	13.0	24.0	41.5	37.5	200	400,000	136	20	9.4	9.20	25	75QW3680(1)H0(2)	R75QW3680(1)H0(2)
1000	250	0.82	16.0	28.5	41.5	37.5	200	400,000	164	20	9.7	9.56	23	75QW3820(1)H0(2)	R75QW3820(1)H0(2)
1000	250	1	16.0	28.5	41.5	37.5	200	400,000	200	20	8.0	10.56	23	75QW4100(1)H0(2)	R75QW4100(1)H0(2)
1000	250	1.2	19.0	32.0	41.5	37.5	200	400,000	240	20	13.3	8.54	21	75QW4120(1)H0(2)	R75QW4120(1)H0(2)
1000	250	1.5	19.0	32.0	41.5	37.5	200	400,000	300	20	10.6	9.55	21	75QW4150(1)H0(2)	R75QW4150(1)H0(2)
1000	250	1.8	20.0	40.0	41.5	37.5	200	400,000	360	20	8.8	10.98	19	75QW4180(1)H0(2)	R75QW4180(1)H0(2)
1000	250	2.2	20.0	40.0	41.5	37.5	200	400,000	440	20	7.2	12.14	19	75QW4220(1)H0(2)	R75QW4220(1)H0(2)
1000	250	2.2	24.0	44.0	41.5	37.5	200	400,000	440	20	7.2	12.67	17	75QW4220(1)H3(2)	R75QW4220(1)H3(2)
1000	250	2.7	24.0	44.0	41.5	37.5	200	400,000	540	20	8.8	11.46	17	75QW4270(1)H0(2)	R75QW4270(1)H0(2)
1000	250	3.3	30.0	45.0	41.5	37.5	200	400,000	660	20	7.2	13.13	16	75QW4330(1)H0(2)	R75QW4330(1)H0(2)
1000	250	3.9	30.0	45.0	41.5	37.5	200	400,000	780	20	6.1	14.28	16	75QW4390(1)H0(2)	R75QW4390(1)H0(2)
1250	600	0.0068	5.0	11.0	18.0	15.0	3,300	8,250,000	22	10	117.0	1.68	60	75RI1680(1)H4(2)	R75RI1680(1)H4(2)
1250	600	0.0082	5.0	11.0	18.0	15.0	3,300	8,250,000	27	10	97.0	1.85	60	75RI1820(1)H3(2)	R75RI1820(1)H3(2)
1250	600	0.01	5.0	11.0	18.0	15.0	3,300	8,250,000	33	10	79.6	2.04	60	75RI2100(1)H3(2)	R75RI2100(1)H3(2)
1250	600	0.012	6.0	12.0	18.0	15.0	3,300	8,250,000	40	10	66.3	2.32	56	75RI2120(1)H3(2)	R75RI2120(1)H3(2)
1250	600	0.015	6.0	12.0	18.0	15.0	3,300	8,250,000	50	10	53.1	2.60	56	75RI2150(1)H3(2)	R75RI2150(1)H3(2)
1250	600	0.018	7.5	13.5	18.0	15.0	3,300	8,250,000	59	10	44.2	2.99	51	75RI2180(1)H3(2)	R75RI2180(1)H3(2)
1250	600	0.022	7.5	13.5	18.0	15.0	3,300	8,250,000	73	10	36.2	3.30	51	75RI2220(1)H3(2)	R75RI2220(1)H3(2)
1250	600	0.022	9.0	12.5	18.0	15.0	3,300	8,250,000	73	10	36.2	3.34	50	75RI2220(1)H7(2)	R75RI2220(1)H7(2)
1250	600	0.027	8.5	14.5	18.0	15.0	3,300	8,250,000	89	10	29.5	3.77	48	75RI2270(1)H3(2)	R75RI2270(1)H3(2)
1250	600	0.027	13.0	12.0	18.0	15.0	3,300	8,250,000	89	10	29.5	3.89	45	75RI2270(1)H7(2)	R75RI2270(1)H7(2)
1250	600	0.033	8.5	14.5	18.0	15.0	3,300	8,250,000	109	10	24.1	4.17	48	75RI2330(1)H4(2)	R75RI2330(1)H4(2)
1250	600	0.033	10.0	16.0	18.0	15.0	3,300	8,250,000	109	10	24.1	4.34	44	75RI2330(1)H3(2)	R75RI2330(1)H3(2)
1250	600	0.033	13.0	12.0	18.0	15.0	3,300	8,250,000	109	10	24.1	4.30	45	75RI2330(1)H7(2)	R75RI2330(1)H7(2)
1250	600	0.039	10.0	16.0	18.0	15.0	3,300	8,250,000	129	10	20.4	4.72	44	75RI2390(1)H3(2)	R75RI2390(1)H3(2)
1250	600	0.047	10.0	16.0	18.0	15.0	3,300	8,250,000	155	10	16.9	5.18	44	75RI2470(1)H4(2)	R75RI2470(1)H4(2)
1250	600	0.047	11.0	19.0	18.0	15.0	3,300	8,250,000	155	10	16.9	5.42	40	75RI2470(1)H3(2)	R75RI2470(1)H3(2)
1250	600	0.056	11.0	19.0	18.0	15.0	3,300	8,250,000	185	10	19.9	5.00	40	75RI2560(1)H3(2)	R75RI2560(1)H3(2)
1250	600	0.068	11.0	19.0	18.0	15.0	3,300	8,250,000	224	10	16.4	5.51	40	75RI2680(1)H4(2)	R75RI2680(1)H4(2)
1250	600	0.033	6.0	15.0	26.5	22.5	2,100	5,250,000	69	16	24.1	4.37	43	75RN2330(1)H3(2)	R75RN2330(1)H3(2)
1250	600	0.039	6.0	15.0	26.5	22.5	2,100	5,250,000	82	16	20.4	4.75	43	75RN2390(1)H3(2)	R75RN2390(1)H3(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C	(°C/W)	KEMET Internal Part Number	Customer Part Number
									I_{pkr}	ESL	ESR max	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 90°C A_{rms}	(°C/W)		
1250	600	0.047	7.0	16.0	26.5	22.5	2,100	5,250,000	99	16	16.9	5.37	41	75RN2470(1)H3(2)	R75RN2470(1)H3(2)
1250	600	0.056	7.0	16.0	26.5	22.5	2,100	5,250,000	118	16	19.9	4.95	41	75RN2560(1)H3(2)	R75RN2560(1)H3(2)
1250	600	0.068	8.5	17.0	26.5	22.5	2,100	5,250,000	143	16	16.4	5.64	38	75RN2680(1)H3(2)	R75RN2680(1)H3(2)
1250	600	0.082	10.0	18.5	26.5	22.5	2,100	5,250,000	172	16	13.6	6.41	36	75RN2820(1)H3(2)	R75RN2820(1)H3(2)
1250	600	0.1	10.0	18.5	26.5	22.5	2,100	5,250,000	210	16	11.1	7.08	36	75RN3100(1)H3(2)	R75RN3100(1)H3(2)
1250	600	0.12	11.0	20.0	26.5	22.5	2,100	5,250,000	252	16	9.3	7.97	34	75RN3120(1)H3(2)	R75RN3120(1)H3(2)
1250	600	0.15	13.0	22.0	26.5	22.5	2,100	5,250,000	315	16	7.4	9.26	31	75RN3150(1)H3(2)	R75RN3150(1)H3(2)
1250	600	0.1	9.0	17.0	32.0	27.5	750	1,875,000	75	18	11.1	7.17	35	75RR3100(1)H4(2)	R75RR3100(1)H4(2)
1250	600	0.12	9.0	17.0	32.0	27.5	750	1,875,000	90	18	9.3	7.85	35	75RR3120(1)H4(2)	R75RR3120(1)H4(2)
1250	600	0.15	11.0	20.0	32.0	27.5	750	1,875,000	113	18	7.4	9.26	31	75RR3150(1)H4(2)	R75RR3150(1)H4(2)
1250	600	0.18	11.0	20.0	32.0	27.5	750	1,875,000	135	18	6.2	10.14	31	75RR3180(1)H4(2)	R75RR3180(1)H4(2)
1250	600	0.22	13.0	22.0	32.0	27.5	750	1,875,000	165	18	5.1	11.65	29	75RR3220(1)H4(2)	R75RR3220(1)H4(2)
1250	600	0.27	13.0	25.0	32.0	27.5	750	1,875,000	203	18	10.0	8.48	28	75RR3270(1)H4(2)	R75RR3270(1)H4(2)
1250	600	0.33	14.0	28.0	32.0	27.5	750	1,875,000	248	18	8.2	9.67	26	75RR3330(1)H3(2)	R75RR3330(1)H3(2)
1250	600	0.39	18.0	33.0	32.0	27.5	750	1,875,000	293	18	8.2	10.33	23	75RR3390(1)H4(2)	R75RR3390(1)H4(2)
1250	600	0.47	18.0	33.0	32.0	27.5	750	1,875,000	353	18	6.8	11.35	23	75RR3470(1)H4(2)	R75RR3470(1)H4(2)
1250	600	0.56	18.0	33.0	32.0	27.5	750	1,875,000	420	18	5.7	12.38	23	75RR3560(1)H4(2)	R75RR3560(1)H4(2)
1250	600	0.68	22.0	37.0	32.0	27.5	750	1,875,000	510	18	4.7	14.35	21	75RR3680(1)H4(2)	R75RR3680(1)H4(2)
1250	600	0.82	22.0	37.0	32.0	27.5	750	1,875,000	615	18	3.9	15.75	21	75RR3820(1)H4(2)	R75RR3820(1)H4(2)
1250	600	0.27	11.0	22.0	41.5	37.5	550	1,375,000	149	20	10.0	8.58	27	75RW3270(1)H3(2)	R75RW3270(1)H3(2)
1250	600	0.33	13.0	24.0	41.5	37.5	550	1,375,000	182	20	8.2	9.83	25	75RW3330(1)H2(2)	R75RW3330(1)H2(2)
1250	600	0.39	13.0	24.0	41.5	37.5	550	1,375,000	215	20	8.2	9.85	25	75RW3390(1)H3(2)	R75RW3390(1)H3(2)
1250	600	0.47	16.0	28.5	41.5	37.5	550	1,375,000	259	20	6.8	11.44	23	75RW3470(1)H4(2)	R75RW3470(1)H4(2)
1250	600	0.56	16.0	28.5	41.5	37.5	550	1,375,000	308	20	5.7	12.49	23	75RW3560(1)H4(2)	R75RW3560(1)H4(2)
1250	600	0.68	19.0	32.0	41.5	37.5	550	1,375,000	374	20	4.7	14.38	21	75RW3680(1)H3(2)	R75RW3680(1)H3(2)
1250	600	0.82	19.0	32.0	41.5	37.5	550	1,375,000	451	20	3.9	15.79	21	75RW3820(1)H4(2)	R75RW3820(1)H4(2)
1250	600	1	20.0	40.0	41.5	37.5	550	1,375,000	550	20	3.2	18.30	19	75RW4100(1)H3(2)	R75RW4100(1)H3(2)
1250	600	1.2	20.0	40.0	41.5	37.5	550	1,375,000	660	20	4.0	16.37	19	75RW4120(1)H4(2)	R75RW4120(1)H4(2)
1250	600	1.5	24.0	44.0	41.5	37.5	550	1,375,000	825	20	3.2	19.10	17	75RW4150(1)H4(2)	R75RW4150(1)H4(2)
1250	600	1.8	30.0	45.0	41.5	37.5	550	1,375,000	990	20	2.7	21.69	16	75RW4180(1)H2(2)	R75RW4180(1)H2(2)
1600	650	0.0039	4.0	10.0	18.0	15.0	6,000	19,200,000	23	10	204.0	1.22	65	75TI1390(1)H3(2)	R75TI1390(1)H3(2)
1600	650	0.0047	4.0	10.0	18.0	15.0	6,000	19,200,000	28	10	169.3	1.34	65	75TI1470(1)H3(2)	R75TI1470(1)H3(2)
1600	650	0.0056	5.0	11.0	18.0	15.0	6,000	19,200,000	34	10	142.1	1.53	60	75TI1560(1)H3(2)	R75TI1560(1)H3(2)
1600	650	0.0068	5.0	11.0	18.0	15.0	6,000	19,200,000	41	10	117.0	1.68	60	75TI1680(1)H3(2)	R75TI1680(1)H3(2)
1600	650	0.0082	6.0	12.0	18.0	15.0	6,000	19,200,000	49	10	97.0	1.92	56	75TI1820(1)H3(2)	R75TI1820(1)H3(2)
1600	650	0.01	6.0	12.0	18.0	15.0	6,000	19,200,000	60	10	79.6	2.12	56	75TI2100(1)H3(2)	R75TI2100(1)H3(2)
1600	650	0.012	6.0	12.0	18.0	15.0	6,000	19,200,000	72	10	66.3	2.32	56	75TI2120(1)H4(2)	R75TI2120(1)H4(2)
1600	650	0.012	7.5	13.5	18.0	15.0	6,000	19,200,000	72	10	66.3	2.44	51	75TI2120(1)H3(2)	R75TI2120(1)H3(2)
1600	650	0.015	7.5	13.5	18.0	15.0	6,000	19,200,000	90	10	53.1	2.73	51	75TI2150(1)H3(2)	R75TI2150(1)H3(2)
1600	650	0.018	8.5	14.5	18.0	15.0	6,000	19,200,000	108	10	44.2	3.08	48	75TI2180(1)H3(2)	R75TI2180(1)H3(2)
1600	650	0.018	9.0	12.5	18.0	15.0	6,000	19,200,000	108	10	44.2	3.02	50	75TI2180(1)H7(2)	R75TI2180(1)H7(2)
1600	650	0.022	8.5	14.5	18.0	15.0	6,000	19,200,000	132	10	36.2	3.40	48	75TI2220(1)H4(2)	R75TI2220(1)H4(2)
1600	650	0.022	10.0	16.0	18.0	15.0	6,000	19,200,000	132	10	36.2	3.54	44	75TI2220(1)H3(2)	R75TI2220(1)H3(2)
1600	650	0.022	13.0	12.0	18.0	15.0	6,000	19,200,000	132	10	36.2	3.51	45	75TI2220(1)H7(2)	R75TI2220(1)H7(2)
1600	650	0.027	10.0	16.0	18.0	15.0	6,000	19,200,000	162	10	29.5	3.92	44	75TI2270(1)H3(2)	R75TI2270(1)H3(2)
1600	650	0.033	10.0	16.0	18.0	15.0	6,000	19,200,000	198	10	24.1	4.34	44	75TI2330(1)H4(2)	R75TI2330(1)H4(2)
1600	650	0.033	11.0	19.0	18.0	15.0	6,000	19,200,000	198	10	24.1	4.54	40	75TI2330(1)H3(2)	R75TI2330(1)H3(2)
1600	650	0.047	11.0	19.0	18.0	15.0	6,000	19,200,000	282	10	16.9	5.42	40	75TI2470(1)H4(2)	R75TI2470(1)H4(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz, 90°C	(°C/W)	KEMET Internal Part Number	Customer Part Number
									I_{pkr}	ESL	ESR max	I_{rms} max (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 90°C A_{rms}	(°C/W)		
1600	650	0.027	6.0	15.0	26.5	22.5	3,000	9,600,000	81	16	29.5	3.95	43	75TN2270(1)H3(2)	R75TN2270(1)H3(2)
1600	650	0.033	7.0	16.0	26.5	22.5	3,000	9,600,000	99	16	24.1	4.50	41	75TN2330(1)H3(2)	R75TN2330(1)H3(2)
1600	650	0.039	7.0	16.0	26.5	22.5	3,000	9,600,000	117	16	20.4	4.89	41	75TN2390(1)H3(2)	R75TN2390(1)H3(2)
1600	650	0.047	8.5	17.0	26.5	22.5	3,000	9,600,000	141	16	16.9	5.55	38	75TN2470(1)H3(2)	R75TN2470(1)H3(2)
1600	650	0.056	10.0	18.5	26.5	22.5	3,000	9,600,000	168	16	19.9	5.30	36	75TN2560(1)H3(2)	R75TN2560(1)H3(2)
1600	650	0.068	10.0	18.5	26.5	22.5	3,000	9,600,000	204	16	16.4	5.84	36	75TN2680(1)H3(2)	R75TN2680(1)H3(2)
1600	650	0.082	11.0	20.0	26.5	22.5	3,000	9,600,000	246	16	13.6	6.58	34	75TN2820(1)H3(2)	R75TN2820(1)H3(2)
1600	650	0.1	13.0	22.0	26.5	22.5	3,000	9,600,000	300	16	11.1	7.56	31	75TN3100(1)H3(2)	R75TN3100(1)H3(2)
1600	650	0.12	13.0	22.0	26.5	22.5	3,000	9,600,000	360	16	9.3	8.29	31	75TN3120(1)H3(2)	R75TN3120(1)H3(2)
1600	650	0.068	9.0	17.0	32.0	27.5	1,500	4,800,000	102	18	16.4	5.91	35	75TR2680(1)H3(2)	R75TR2680(1)H3(2)
1600	650	0.082	9.0	17.0	32.0	27.5	1,500	4,800,000	123	18	13.6	6.49	35	75TR2820(1)H3(2)	R75TR2820(1)H3(2)
1600	650	0.1	11.0	20.0	32.0	27.5	1,500	4,800,000	150	18	11.1	7.56	31	75TR3100(1)H4(2)	R75TR3100(1)H4(2)
1600	650	0.12	11.0	20.0	32.0	27.5	1,500	4,800,000	180	18	9.3	8.28	31	75TR3120(1)H3(2)	R75TR3120(1)H3(2)
1600	650	0.15	13.0	22.0	32.0	27.5	1,500	4,800,000	225	18	7.4	9.62	29	75TR3150(1)H3(2)	R75TR3150(1)H3(2)
1600	650	0.18	13.0	25.0	32.0	27.5	1,500	4,800,000	270	18	6.2	10.79	28	75TR3180(1)H2(2)	R75TR3180(1)H2(2)
1600	650	0.22	13.0	25.0	32.0	27.5	1,500	4,800,000	330	18	5.1	11.93	28	75TR3220(1)H4(2)	R75TR3220(1)H4(2)
1600	650	0.27	18.0	33.0	32.0	27.5	1,500	4,800,000	405	18	10.0	9.33	23	75TR3270(1)H3(2)	R75TR3270(1)H3(2)
1600	650	0.33	18.0	33.0	32.0	27.5	1,500	4,800,000	495	18	8.2	10.31	23	75TR3330(1)H3(2)	R75TR3330(1)H3(2)
1600	650	0.39	18.0	33.0	32.0	27.5	1,500	4,800,000	585	18	8.2	10.33	23	75TR3390(1)H3(2)	R75TR3390(1)H3(2)
1600	650	0.47	22.0	37.0	32.0	27.5	1,500	4,800,000	705	18	6.8	11.93	21	75TR3470(1)H3(2)	R75TR3470(1)H3(2)
1600	650	0.56	22.0	37.0	32.0	27.5	1,500	4,800,000	840	18	5.7	13.02	21	75TR3560(1)H3(2)	R75TR3560(1)H3(2)
1600	650	0.18	11.0	22.0	41.5	37.5	750	2,400,000	135	20	6.2	8.34	27	75TW3180(1)H3(2)	R75TW3180(1)H3(2)
1600	650	0.22	13.0	24.0	41.5	37.5	750	2,400,000	165	20	5.1	9.55	25	75TW3220(1)H2(2)	R75TW3220(1)H2(2)
1600	650	0.27	13.0	24.0	41.5	37.5	750	2,400,000	203	20	10.0	8.89	25	75TW3270(1)H3(2)	R75TW3270(1)H3(2)
1600	650	0.33	16.0	28.5	41.5	37.5	750	2,400,000	248	20	8.2	10.40	23	75TW3330(1)H3(2)	R75TW3330(1)H3(2)
1600	650	0.39	16.0	28.5	41.5	37.5	750	2,400,000	293	20	8.2	10.43	23	75TW3390(1)H3(2)	R75TW3390(1)H3(2)
1600	650	0.47	19.0	32.0	41.5	37.5	750	2,400,000	353	20	6.8	11.95	21	75TW3470(1)H2(2)	R75TW3470(1)H2(2)
1600	650	0.56	19.0	32.0	41.5	37.5	750	2,400,000	420	20	5.7	13.05	21	75TW3560(1)H3(2)	R75TW3560(1)H3(2)
1600	650	0.68	20.0	40.0	41.5	37.5	750	2,400,000	510	20	4.7	15.09	19	75TW3680(1)H2(2)	R75TW3680(1)H2(2)
1600	650	0.82	20.0	40.0	41.5	37.5	750	2,400,000	615	20	3.9	16.57	19	75TW3820(1)H3(2)	R75TW3820(1)H3(2)
1600	650	1	24.0	44.0	41.5	37.5	750	2,400,000	750	20	3.2	19.10	17	75TW4100(1)H3(2)	R75TW4100(1)H3(2)
1600	650	1.2	24.0	44.0	41.5	37.5	750	2,400,000	900	20	4.0	17.08	17	75TW4120(1)H3(2)	R75TW4120(1)H3(2)
1600	650	1.5	30.0	45.0	41.5	37.5	750	2,400,000	1,125	20	3.2	19.80	16	75TW4150(1)H3(2)	R75TW4150(1)H3(2)
2000	700	0.001	4.0	10.0	18.0	15.0	9,500	38,000,000	10	10	795.8	0.44	65	75UI1100(1)H4(2)	R75UI1100(1)H4(2)
2000	700	0.0012	4.0	10.0	18.0	15.0	9,500	38,000,000	11	10	663.1	0.53	65	75UI1120(1)H4(2)	R75UI1120(1)H4(2)
2000	700	0.0015	4.0	10.0	18.0	15.0	9,500	38,000,000	14	10	530.5	0.66	65	75UI1150(1)H4(2)	R75UI1150(1)H4(2)
2000	700	0.0018	4.0	10.0	18.0	15.0	9,500	38,000,000	17	10	442.1	0.79	65	75UI1180(1)H4(2)	R75UI1180(1)H4(2)
2000	700	0.0022	4.0	10.0	18.0	15.0	9,500	38,000,000	21	10	361.7	0.92	65	75UI1220(1)H4(2)	R75UI1220(1)H4(2)
2000	700	0.0027	4.0	10.0	18.0	15.0	9,500	38,000,000	26	10	294.7	1.02	65	75UI1270(1)H4(2)	R75UI1270(1)H4(2)
2000	700	0.0033	4.0	10.0	18.0	15.0	9,500	38,000,000	31	10	241.1	1.13	65	75UI1330(1)H4(2)	R75UI1330(1)H4(2)
2000	700	0.0039	5.0	11.0	18.0	15.0	9,500	38,000,000	37	10	204.0	1.28	60	75UI1390(1)H3(2)	R75UI1390(1)H3(2)
2000	700	0.0047	5.0	11.0	18.0	15.0	9,500	38,000,000	45	10	169.3	1.40	60	75UI1470(1)H3(2)	R75UI1470(1)H3(2)
2000	700	0.0056	6.0	12.0	18.0	15.0	9,500	38,000,000	53	10	142.1	1.59	56	75UI1560(1)H3(2)	R75UI1560(1)H3(2)
2000	700	0.0068	6.0	12.0	18.0	15.0	9,500	38,000,000	65	10	117.0	1.75	56	75UI1680(1)H3(2)	R75UI1680(1)H3(2)
2000	700	0.0082	6.0	12.0	18.0	15.0	9,500	38,000,000	78	10	97.0	1.92	56	75UI1820(1)H4(2)	R75UI1820(1)H4(2)
2000	700	0.0082	7.5	13.5	18.0	15.0	9,500	38,000,000	78	10	97.0	2.02	51	75UI1820(1)H3(2)	R75UI1820(1)H3(2)
2000	700	0.01	7.5	13.5	18.0	15.0	9,500	38,000,000	95	10	79.6	2.23	51	75UI2100(1)H3(2)	R75UI2100(1)H3(2)
2000	700	0.012	8.5	14.5	18.0	15.0	9,500	38,000,000	114	10	66.3	2.51	48	75UI2120(1)H3(2)	R75UI2120(1)H3(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz, 90°C / I_{rms} max (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	I_{rms} max (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz, 90°C A_{rms}	(°C/W)		
2000	700	0.012	9.0	12.5	18.0	15.0	9,500	38,000,000	114	10	66.3	2.47	50	75UI2120(1)H7(2)	R75UI2120(1)H7(2)
2000	700	0.015	8.5	14.5	18.0	15.0	9,500	38,000,000	143	10	53.1	2.81	48	75UI2150(1)H3(2)	R75UI2150(1)H3(2)
2000	700	0.015	13.0	12.0	18.0	15.0	9,500	38,000,000	143	10	53.1	2.90	45	75UI2150(1)H7(2)	R75UI2150(1)H7(2)
2000	700	0.018	10.0	16.0	18.0	15.0	9,500	38,000,000	171	10	44.2	3.20	44	75UI2180(1)H3(2)	R75UI2180(1)H3(2)
2000	700	0.018	13.0	12.0	18.0	15.0	9,500	38,000,000	171	10	44.2	3.17	45	75UI2180(1)H7(2)	R75UI2180(1)H7(2)
2000	700	0.022	10.0	16.0	18.0	15.0	9,500	38,000,000	209	10	36.2	3.54	44	75UI2220(1)H4(2)	R75UI2220(1)H4(2)
2000	700	0.022	11.0	19.0	18.0	15.0	9,500	38,000,000	209	10	36.2	3.71	40	75UI2220(1)H3(2)	R75UI2220(1)H3(2)
2000	700	0.027	11.0	19.0	18.0	15.0	9,500	38,000,000	257	10	29.5	4.11	40	75UI2270(1)H3(2)	R75UI2270(1)H3(2)
2000	700	0.033	11.0	19.0	18.0	15.0	9,500	38,000,000	314	10	24.1	4.54	40	75UI2330(1)H4(2)	R75UI2330(1)H4(2)
2000	700	0.0047	6.0	15.0	26.5	22.5	4,000	16,000,000	19	16	169.3	1.65	43	75UN1470(1)H3(2)	R75UN1470(1)H3(2)
2000	700	0.0056	6.0	15.0	26.5	22.5	4,000	16,000,000	22	16	142.1	1.80	43	75UN1560(1)H3(2)	R75UN1560(1)H3(2)
2000	700	0.0068	6.0	15.0	26.5	22.5	4,000	16,000,000	27	16	117.0	1.98	43	75UN1680(1)H3(2)	R75UN1680(1)H3(2)
2000	700	0.0082	6.0	15.0	26.5	22.5	4,000	16,000,000	33	16	97.0	2.18	43	75UN1820(1)H3(2)	R75UN1820(1)H3(2)
2000	700	0.01	6.0	15.0	26.5	22.5	4,000	16,000,000	40	16	79.6	2.41	43	75UN2100(1)H3(2)	R75UN2100(1)H3(2)
2000	700	0.012	6.0	15.0	26.5	22.5	4,000	16,000,000	48	16	66.3	2.64	43	75UN2120(1)H3(2)	R75UN2120(1)H3(2)
2000	700	0.015	6.0	15.0	26.5	22.5	4,000	16,000,000	60	16	53.1	2.95	43	75UN2150(1)H3(2)	R75UN2150(1)H3(2)
2000	700	0.018	6.0	15.0	26.5	22.5	4,000	16,000,000	72	16	44.2	3.23	43	75UN2180(1)H3(2)	R75UN2180(1)H3(2)
2000	700	0.022	6.0	15.0	26.5	22.5	4,000	16,000,000	88	16	36.2	3.57	43	75UN2220(1)H3(2)	R75UN2220(1)H3(2)
2000	700	0.027	7.0	16.0	26.5	22.5	4,000	16,000,000	108	16	29.5	4.07	41	75UN2270(1)H3(2)	R75UN2270(1)H3(2)
2000	700	0.033	8.5	17.0	26.5	22.5	4,000	16,000,000	132	16	24.1	4.65	38	75UN2330(1)H3(2)	R75UN2330(1)H3(2)
2000	700	0.039	10.0	18.5	26.5	22.5	4,000	16,000,000	156	16	20.4	5.23	36	75UN2390(1)H3(2)	R75UN2390(1)H3(2)
2000	700	0.047	10.0	18.5	26.5	22.5	4,000	16,000,000	188	16	16.9	5.74	36	75UN2470(1)H3(2)	R75UN2470(1)H3(2)
2000	700	0.056	11.0	20.0	26.5	22.5	4,000	16,000,000	224	16	19.9	5.44	34	75UN2560(1)H3(2)	R75UN2560(1)H3(2)
2000	700	0.056	9.0	17.0	32.0	27.5	2,000	8,000,000	112	18	19.9	5.36	35	75UR2560(1)H3(2)	R75UR2560(1)H3(2)
2000	700	0.068	9.0	17.0	32.0	27.5	2,000	8,000,000	136	18	16.4	5.91	35	75UR2680(1)H4(2)	R75UR2680(1)H4(2)
2000	700	0.082	11.0	20.0	32.0	27.5	2,000	8,000,000	164	18	13.6	6.85	31	75UR2820(1)H4(2)	R75UR2820(1)H4(2)
2000	700	0.1	11.0	20.0	32.0	27.5	2,000	8,000,000	200	18	11.1	7.56	31	75UR3100(1)H3(2)	R75UR3100(1)H3(2)
2000	700	0.12	13.0	22.0	32.0	27.5	2,000	8,000,000	240	18	9.3	8.61	29	75UR3120(1)H3(2)	R75UR3120(1)H3(2)
2000	700	0.15	13.0	25.0	32.0	27.5	2,000	8,000,000	300	18	7.4	9.85	28	75UR3150(1)H4(2)	R75UR3150(1)H4(2)
2000	700	0.18	13.0	25.0	32.0	27.5	2,000	8,000,000	360	18	6.2	10.79	28	75UR3180(1)H4(2)	R75UR3180(1)H4(2)
2000	700	0.22	14.0	28.0	32.0	27.5	2,000	8,000,000	440	18	5.1	12.30	26	75UR3220(1)H4(2)	R75UR3220(1)H4(2)
2000	700	0.27	18.0	33.0	32.0	27.5	2,000	8,000,000	540	18	10.0	9.33	23	75UR3270(1)H3(2)	R75UR3270(1)H3(2)
2000	700	0.33	18.0	33.0	32.0	27.5	2,000	8,000,000	660	18	8.2	10.31	23	75UR3330(1)H4(2)	R75UR3330(1)H4(2)
2000	700	0.39	22.0	37.0	32.0	27.5	2,000	8,000,000	780	18	8.2	10.86	21	75UR3390(1)H3(2)	R75UR3390(1)H3(2)
2000	700	0.47	22.0	37.0	32.0	27.5	2,000	8,000,000	940	18	6.8	11.93	21	75UR3470(1)H4(2)	R75UR3470(1)H4(2)
2000	700	0.15	11.0	22.0	41.5	37.5	700	2,800,000	105	20	7.4	9.97	27	75UW3150(1)H3(2)	R75UW3150(1)H3(2)
2000	700	0.18	13.0	24.0	41.5	37.5	700	2,800,000	126	20	6.2	11.31	25	75UW3180(1)H3(2)	R75UW3180(1)H3(2)
2000	700	0.22	13.0	24.0	41.5	37.5	700	2,800,000	154	20	5.1	12.50	25	75UW3220(1)H3(2)	R75UW3220(1)H3(2)
2000	700	0.27	16.0	28.5	41.5	37.5	700	2,800,000	189	20	10.0	9.41	23	75UW3270(1)H3(2)	R75UW3270(1)H3(2)
2000	700	0.33	16.0	28.5	41.5	37.5	700	2,800,000	231	20	8.2	10.40	23	75UW3330(1)H3(2)	R75UW3330(1)H3(2)
2000	700	0.39	19.0	32.0	41.5	37.5	700	2,800,000	273	20	8.2	10.89	21	75UW3390(1)H3(2)	R75UW3390(1)H3(2)
2000	700	0.47	19.0	32.0	41.5	37.5	700	2,800,000	329	20	6.8	11.95	21	75UW3470(1)H3(2)	R75UW3470(1)H3(2)
2000	700	0.56	20.0	40.0	41.5	37.5	700	2,800,000	392	20	5.7	13.70	19	75UW3560(1)H4(2)	R75UW3560(1)H4(2)
2000	700	0.68	20.0	40.0	41.5	37.5	700	2,800,000	476	20	4.7	15.09	19	75UW3680(1)H3(2)	R75UW3680(1)H3(2)
2000	700	0.82	24.0	44.0	41.5	37.5	700	2,800,000	574	20	3.9	17.29	17	75UW3820(1)H4(2)	R75UW3820(1)H4(2)
2000	700	1	24.0	44.0	41.5	37.5	700	2,800,000	700	20	3.2	19.10	17	75UW4100(1)H3(2)	R75UW4100(1)H3(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz, 90°C / I_{rms} max (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) J = 5%, K = 10%, M = 20%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 90°C + 20°C = 110°C$

Soldering Process

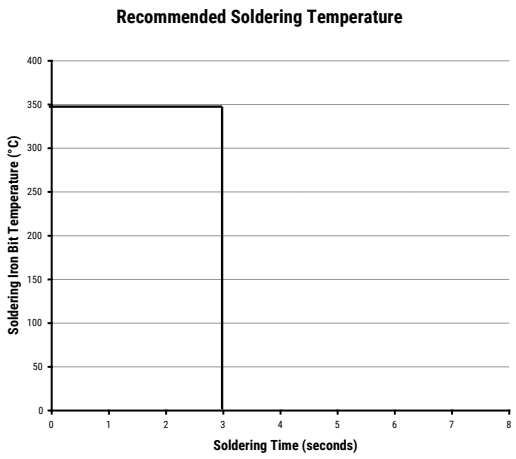
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as a primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 – 221°C for the new alloys. As a result, the heat stress to the components, even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

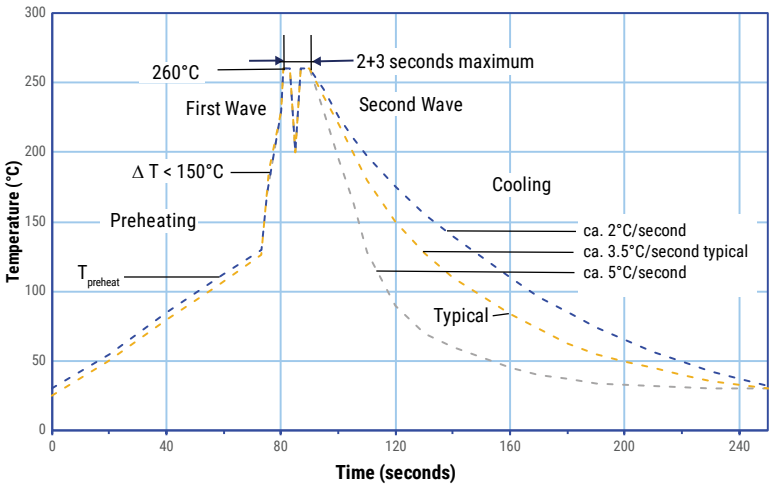
Manual Soldering Recommendations

The following is recommended 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



Soldering Process cont.

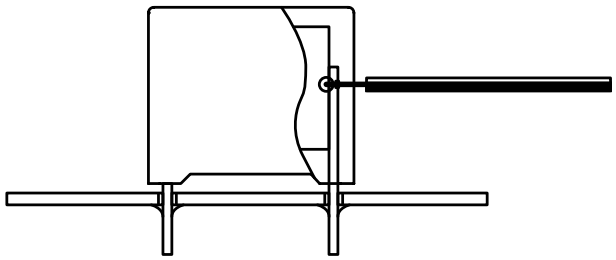
Wave Soldering Recommendations cont.

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

Mounting

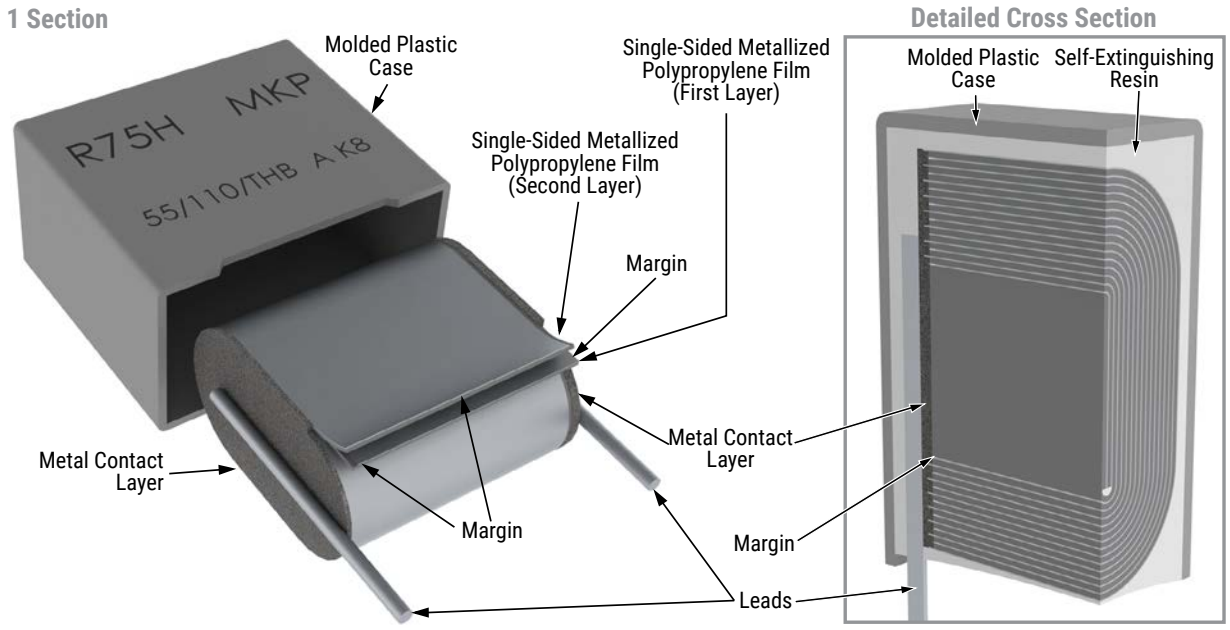
Resistance to Vibration and Mechanical Shock

AEC-Q200 Mechanical Stress Tests:

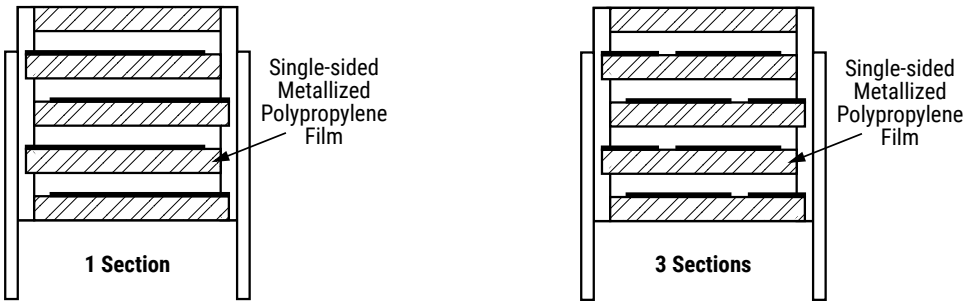
Mechanical Shock	**MIL-SDT-202 Method 213**	Test condition C Peak value 100 g, duration 6 ms, half-sine-wave (see MIL-HDBK for details)
Vibration	**MIL-SDT-202 Method 204**	5 g for 20 minutes, 12 cycles each of 3 orientations Use 8"X5" PCB, 0.031" thick. 7 secure points on one 8" side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10 – 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 capacitors with pitch ≤ 22.5 mm can be mechanically fixed by the leads, for pitch > 22.5 mm, the capacitor body has to be properly fixed (e.g. clamped or glued).

Construction



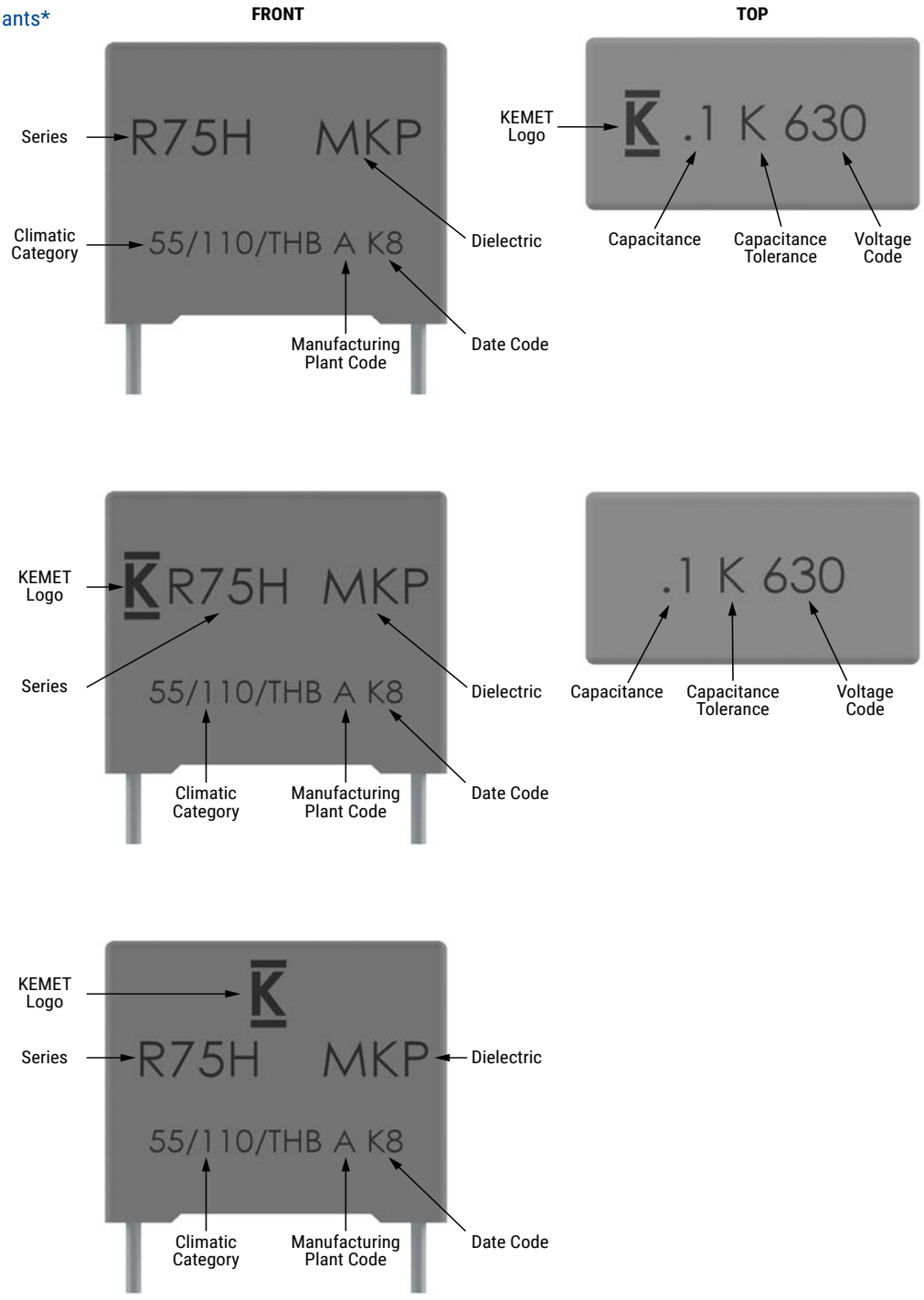
Winding Schemes



Marking

Pitch – 10, 15, & 22.5

Marking Variants*



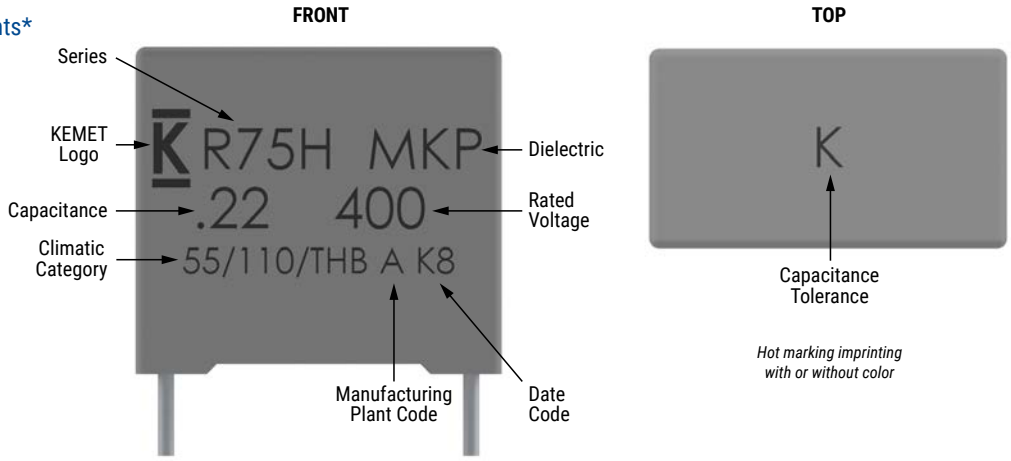
** Differences are caused by technology (clichee, laser, or ink) and technic (production line)*

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.

Marking cont.

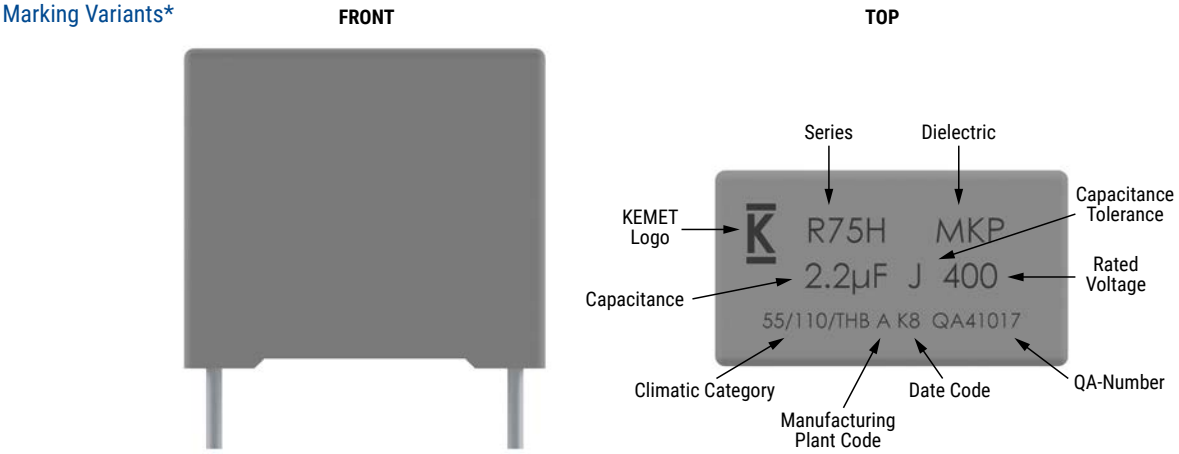
Pitch – 10, 15, 22.5, 27.5, & 37.5

Marking Variants*



Pitch – 22.5, 27.5, & 37.5

Marking Variants*



** Differences are caused by technology (clichee, laser, or ink) and technic (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.

Marking cont.

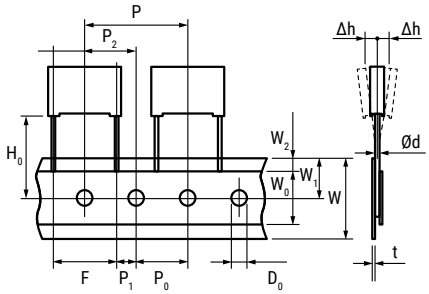
Manufacturing Date Code (IEC–60062)			
Year	**Code**	**Month**	**Code**
2010	A	January	1
2011	B	February	2
2012	C	March	3
2013	D	April	4
2014	E	May	5
2015	F	June	6
2016	H	July	7
2017	J	August	8
2018	K	September	9
2019	L	October	O
2020	M	November	N
2021	N	December	D
2022	P		
2023	R		
2024	S		
2025	T		
2026	U		
2027	V		
2028	W		
2029	X		
2030	A		

Packaging Quantities

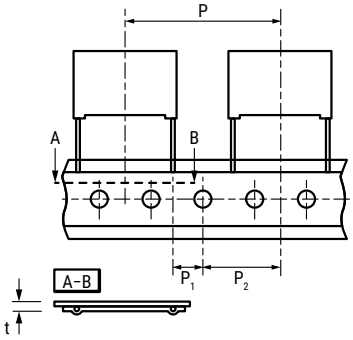
Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads		Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo Taped
	Lead and Packaging Code			JA - JB JE - JH - SE	JM	40 - 50	GY	CK	DQ
10	4.0	9.0	13.0	2,000	2,200	1,800	750	1,500	1,000
	5.0	11.0	13.0	1,300	2,000	1,500	600	1,250	800
	6.0	12.0	13.0	1,000	1,800	1,200	500	1,000	680
15	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
	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
22.5	6.0	15.0	26.5	805	450	500	300	700	464
	7.0	16.0	26.5	700	450	500	250	550	380
	8.5	17.0	26.5	468	350	300	250	450	280
	10.0	18.5	26.5	396	350	300	160	350	235
	11.0	20.0	26.5	360	200	250	160	350	217
	13.0	22.0	26.5	300	150	200	130	300	-
27.5	9.0	17.0	32.0	816	-	408	230	450	-
	11.0	20.0	32.0	560	-	336	190	350	-
	13.0	12.0	32.0	672	-	288	-	-	-
	13.0	22.0	32.0	480	-	288	150	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	-	-	-
	20.0	40.0	41.5	126	-	84	-	-	-
	24.0	15.0	41.5	252	-	108	-	-	-
	24.0	19.0	41.5	216	-	108	-	-	-
	24.0	44.0	41.5	108	-	72	-	-	-
	30.0	45.0	41.5	90	-	60	-	-	-

Lead Taping & Packaging (IEC 60286–2)

Lead Spacing 10 & 15 mm



Lead Spacing 22.5 & 27.5 mm



Taping Specification

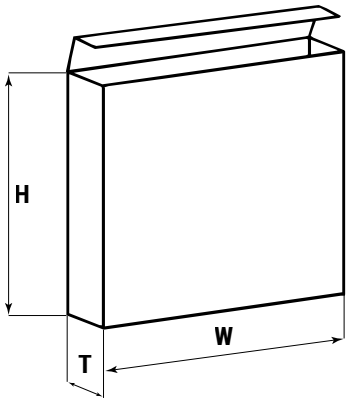
Description	Symbol	Dimensions (mm)				
		Lead Spacing				Tolerance
		10.0	15.0	22.5	27.5	
Lead wire diameter	d	0.6	0.6 – 0.8	0.8	0.8	±0.05
Taping lead space	P	25.4	25.4	38.1	38.1	±1
Feed hole lead space *	P_0	12.7	12.7	12.7	12.7	±0.2 **
Centering of the lead wire	P_1	7.7	5.2	7.8	5.3	±0.7
Centering of the body	P_2	12.7	12.7	19.05	19.05	±1.3
Lead spacing ***	F	10.0	15.0	22.5	27.5	+0.6/−0.1
Component alignment	Δh	0	0	0	0	±2
Component deviation	Δp	0	0	0	0	±1
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

** 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 mm is available upon request.*

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

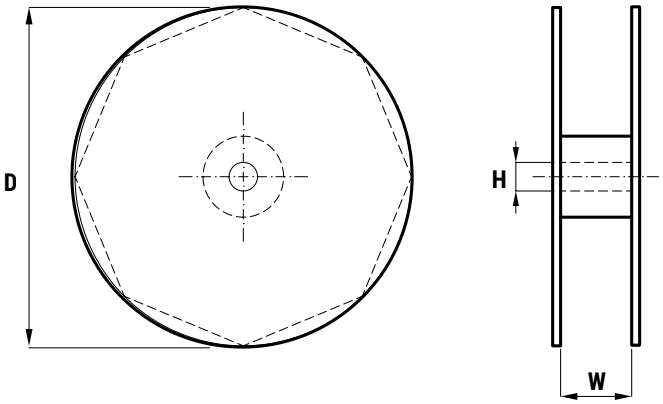
Ammo Specifications

Dimensions (mm)		
H	W	T
360	340	59



Reel Specifications

Dimensions (mm)		
D	H	W
355 500	30 25	55 Maximum



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