PHE845, Class X1, 760 VAC, 105°C



Overview

The PHE845 series is constructed of metallized polypropylene film encapsulated with self-extinguishing resin in a box of material that meets the requirements of UL 94 V-0.

Applications

For use as an electromagnetic interference (EMI) suppression filter in across-the-line applications that require X1 safety classification. Suitable for use in situations in which capacitor failure does not pose a danger of electric shock.

Benefits

Approvals: ENEC, UL, cULClass X1 (IEC 60384-14)

 THB Grade IA: 40°C, 93% RH, 500 hours at 760 V URAC acc. to IEC 60384-14

Rated voltage: 760 VAC 50/60 Hz
Capacitance range: 0.01 – 1.0 μF
Lead spacing: 22.5 – 37.5 mm

• Capacitance tolerance: ±20%, ±10%

Climatic category 40/105/56/B, IEC 60068-1

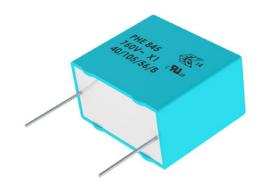
• Tape & Reel in accordance with IEC 60286-2

RoHS compliant and lead-free terminations

• Operating temperature range of -40°C to +105°C

100% screening factory test at 4,250 VDC

· Self-healing properties



Customer Part Number

PHE845	V	D	5100	M	R06L2
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
X1, Metallized Polypropylene	V = 760	D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. The first digit specifies the total number of digits.	K = ±10% M = ±20%	See Ordering Options Table

KEMET Internal Part Number

F	845	D	D	103	M	760	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
F = Film	X1, Metallized Polypropylene	D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	760 = 760	See Ordering Options Table

Built Into Tomorrow



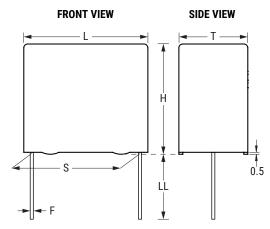
Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	KEMET Lead and Packaging Code	Legacy Lead and Packaging Code
	Standard Lead and Packaging Options			
	Bulk (Tray)-Short Leads	6 +0/-1	С	R06L2 ⁽¹⁾
	Other Lead and Packaging Options			
22.5	Pizza Pack	6 +0/-1	Z	R06L2 ⁽¹⁾
	Bulk (Tray)-Long Leads	30 +0/-1	ALW0L	R30L2
	Tape & Reel (Standard Reel)	H ₀ = 18.5 ±0.5	L	R17T0
	Tape & Reel (Large Reel)	H ₀ = 18.5 ±0.5	Р	R17T1
	Standard Lead and Packaging Options			
	Bulk (Tray)-Short Leads	6 +0/-1	С	R06L2 ⁽¹⁾
27.5	Other Lead and Packaging Options			
	Pizza Pack	6 +0/-1	Z	R06L2 ⁽¹⁾
	Bulk (Tray)-Long Leads	30 +0/-1	ALW0L	R30L2
	Tape & Reel (Large Reel)	H ₀ = 18.5 ±0.5	Р	R17T1
	Standard Lead and Packaging			
	Options			
37.5	Bulk (Tray)-Short Leads	6 +0/-1	С	R06L2 ⁽¹⁾
	Other Lead and Packaging Options			
	Pizza Pack	6 +0/-1	Z	R06L2 ⁽¹⁾

⁽¹⁾ Please specify Bulk (Tray) or Pizza Packaging



Dimensions - Millimeters



KEMET Size	KEMET Size Legacy Size		S		Г		1		L		F
Code	Code	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
DD	D13	22.5	±0.4	6.5	Maximum	14.5	Maximum	26.0	Maximum	0.8	±0.05
DG	D17	22.5	±0.4	7.0	Maximum	16.5	Maximum	26.0	Maximum	0.8	±0.05
DM	D15	22.5	±0.4	9.0	Maximum	18.5	Maximum	26.0	Maximum	8.0	±0.05
DR	D18	22.5	±0.4	10.5	Maximum	19.0	Maximum	26.0	Maximum	8.0	±0.05
DT	D16	22.5	±0.4	11.0	Maximum	21.5	Maximum	26.0	Maximum	8.0	±0.05
DW	D20	22.5	±0.4	13.5	Maximum	23.0	Maximum	26.0	Maximum	0.8	±0.05
DY	D19	22.5	±0.4	15.5	Maximum	24.5	Maximum	26.0	Maximum	0.8	±0.05
FE	F11	27.5	±0.4	10.5	Maximum	20.5	Maximum	31.5	Maximum	8.0	±0.05
FG	F12	27.5	±0.4	11.5	Maximum	22.5	Maximum	31.5	Maximum	0.8	±0.05
FK	F03	27.5	±0.4	13.5	Maximum	23.0	Maximum	31.5	Maximum	8.0	±0.05
FS	F15	27.5	±0.4	19.0	Maximum	29.0	Maximum	31.5	Maximum	0.8	±0.05
FV	F16	27.5	±0.4	21.0	Maximum	30.0	Maximum	31.5	Maximum	0.8	±0.05
RH	R04	37.5	±0.5	15.0	Maximum	26.0	Maximum	41.0	Maximum	1.0	±0.05
RK	R02	37.5	± 0.5	16.5	Maximum	32.0	Maximum	41.0	Maximum	1.0	±0.05
RM	R03	37.5	±0.5	19.0	Maximum	36.0	Maximum	41.0	Maximum	1.0	±0.05
RP	R06	37.5	±0.5	21.0	Maximum	38.0	Maximum	41.0	Maximum	1.0	±0.05
		Note:	See the Ord	ering Option	s Table for l	ead length (LL) options.				



Performance Characteristics

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Dielectric	Polypropylene film							
Plates	Metal layer deposited by evaporation under vacuum							
Winding	Non-inductive type. Triple design.							
Leads	Tinned wire							
Protection	Plastic case, thermosetting resin-filled. Box material is solvent-resistant and flame-retardant according to UL94 V-0.							
Rated Voltage (V _R)	760 VAC 50/60 Hz	760 VAC 50/60 Hz						
Capacitance Range	0.010 - 1.0 μF							
Capacitance Values	E6 series (IEC 60063)							
Capacitance Tolerance	±20% standard, ±10% option							
Temperature Range	-40°C to 105°C							
Climatic Category	40/105/56/B IEC 60068-1							
Approvals	ENEC, UL, cUL							
Related Documents	EN/IEC 60384-14:2005, UL 60	EN/IEC 60384-14:2005, UL 60384-14, CAN/CSA E60384-14:09						
	Maximum Values at +23°C							
	Frequency	C ≤ 0.1 µF	0.1 μF < C ≤ 1 μF					
Dissipation Factor (tanδ)	1 kHz	0.1%	0.1%					
	10 kHz	0.2%	0.4%					
	100 kHz	0.6%	-					
Test Voltage Between Terminals	The 100% screening factory ter requirements in applicable equ permitted to repeat this test as failures.	ipment standards. All electri	ical characteristics are checl	ked after the test. It is not				
Resonance Frequency	Tabulated self-resonance free	quencies f _o (see Table 1 – R	atings & Part Number Refe	rence)				
		Measured at +25°C ±5°C, ac	ccording to IEC 60384-2					
Insulation Resistance		Minimum Values Be	tween Terminals					
ilisulation Resistance	C ≤ 0.33	μF	C > 0.	.33 μF				
	≥ 30,000	ΜΩ	≥ 10,000) MΩ • μF				
In DC Applications	Recommended voltage ≤ 1,50	0 VDC						



Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14:2005	$1.25 \times V_R$ VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ² No visible damage. No open or short circuit.
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ² No visible damage. No open or short circuit.
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles No visible damage.
Active Flammability	IEC 60384-14:2005	V _R + 20 surge pulses at 4 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14:2005	IEC 60384-1, IEC 60695-11-5 Needle Flame Test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 90 - 95% RH, 56 days
THB Test	According to Grade IA	+40°C and 90 - 95% RH, 21 days at rated AC-voltage Capacitance change (ΔC/C): ≤ 10% Dissipation factor change (Δtan δ): ≤ 24 * 10 ⁻³ (at 10 kHz) for C ≤ 1 μF Dissipation factor change (Δtan δ): ≤ 15 * 10 ⁻³ (at 1 kHz) for C > 1 μF Insulation resistance IR in seconds or time constant τ = CR Rins: ≥ 50% of initial limit

Approvals

Certification Body	Mark	Specification	File Number
Intertek Semko AB		EN/IEC 60384-14	SE/0140-17E
UL	c FL us	UL 60384 and CAN/CSA E60384-14:09 (760 VAC)	E73869

Environmental Compliance

All KEMET EMI capacitors are RoHS compliant.





Table 1 - Ratings & Part Number Reference

Capacitance Value (µF)	Size Code (New/		laximu nsions i		Lead Spacing (p)	f _。 (MHz)	dV/dt (V/	New KEMET Part Number	Legacy Part Number
raido (pr.)	Legacy)	В	Н	L	opaomy (p)	()	µs)		
0.010	DD/D13	6.5	14.5	26.0	22.5	11	100	F845DD103(1)760(2)	PHE845VD5100(1)(2)
0.015	DD/D13	6.5	14.5	26.0	22.5	9.2	100	F845DD153(1)760(2)	PHE845VD5150(1)(2)
0.022	DD/D13	6.5	14.5	26.0	22.5	7.6	100	F845DD223(1)760(2)	PHE845VD5220(1)(2)
0.033	DF/D17	7.0	16.5	26.0	22.5	6.4	100	F845DF333(1)760(2)	PHE845VD5330(1)(2)
0.047	DM/D15	9.0	18.5	26.0	22.5	5.3	100	F845DM473(1)760(2)	PHE845VD5470(1)(2)
0.068	DR/D18	10.5	19.0	26.0	22.5	4.4	100	F845DR683(1)760(2)	PHE845VD5680(1)(2)
0.10	DT/D16	11.0	21.5	26.0	22.5	3.5	100	F845DT104(1)760(2)	PHE845VD6100(1)(2)
0.15	DW/D20	13.5	23.0	26.0	22.5	3.1	100	F845DW154(1)760(2)	PHE845VD6150(1)(2)
0.22	DY/D19	15.5	24.5	26.0	22.5	2.7	100	F845DY224M760(2)	PHE845VY6220M(2)
0.10	FE/F11	10.5	20.5	31.5	27.5	3.4	100	F845FE104(1)760(2)	PHE845VF6100(1)(2)
0.15	FG/F12	11.5	22.5	31.5	27.5	3.0	100	F845FG154(1)760(2)	PHE845VF6150(1)(2)
0.22	FK/F03	13.5	23.0	31.5	27.5	2.4	100	F845FK224(1)760(2)	PHE845VF6220(1)(2)
0.33	FS/F15	19.0	29.0	31.5	27.5	2.0	100	F845FS334(1)760(2)	PHE845VF6330(1)(2)
0.47	FV/F16	21.0	30.0	31.5	27.5	1.6	100	F845FV474M760(2)	PHE845VZ6470M(2)
0.47	RH/R04	15.0	26.0	41.0	37.5	1.6	100	F845RH474M760(2)	PHE845VW6470M(2)
0.47	RK/R02	16.5	32.0	41.0	37.5	1.6	100	F845RK474(1)760(2)	PHE845VR6470(1)(2)
0.68	RM/R03	19.0	36.0	41.0	37.5	1.2	100	F845RM684(1)760(2)	PHE845VR6680(1)(2)
1.0	RP/R06	21.0	38.0	41.0	37.5	1.0	100	F845RP105M760(2)	PHE845VW7100M(2)
Capacitance Value (µF)	Size Code (New/ Legacy)	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	f _。 (MHz)	dV/dt (V/μs)	New KEMET Part Number	Legacy Part Number

⁽¹⁾ $M = \pm 20\%$, $K = \pm 10\%$.

⁽²⁾ Insert ordering code for lead type and packaging. See Ordering Options Table for available options.



Soldering Process

The implementation of the RoHS directive has resulted in the selection of SnAuCu (SAC) alloys or SnCu alloys as primary solder. This implementation has increased the liquidus temperature from 183°C for SnPb eutectic alloys 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 – 15 mm), and great care must be taken during soldering. The recommended solder profiles from KEMET should be used. 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. See Figure 1.

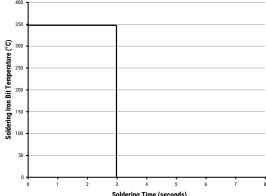
Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the recommended limits may result in degradation of or permanent damage to the capacitors.

Do not place the polypropylene capacitor through an adhesive curing oven to cure resin for surface-mount components. Insert through-hole parts after curing the 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 of two soldering cycles is recommended. Allow time for the capacitor surface temperature to return to normal before the second soldering cycle.

Manual Soldering Recommendations

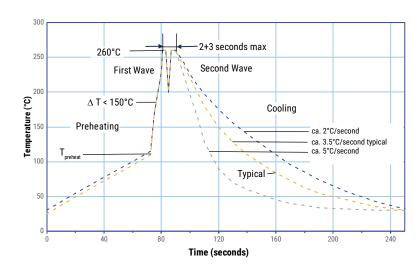
Following is the recommendation for manual soldering with a soldering iron.





Soldering iron tip temperature should be set at 350°C (+10°C maximum), with the soldering duration not to exceed 3 seconds.

Wave Soldering Recommendations





Soldering Process cont.

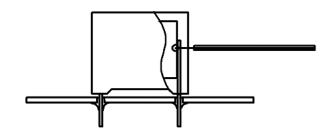
Wave Soldering Recommendations cont.

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

Dielectric film	<u> </u>	n Preheat erature	Maximum Peak Soldering Temperature		
material	Capacitor Pitch ≥ 10 mm	Capacitor Pitch > 15 mm	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm	
Polyester	130°C	130°C	270°C	270°C	
Polypropylene	110°C	130°C	260°C	270°C	
Paper	130°C	140°C	270°C	270°C	
Polyphenylene Sulphide	150°C	160°C	270°C	270°C	

2. The maximum temperature measured inside the capacitor: set the temperature so that the maximum temperature is below the limit inside the element.

Dielectric Film Material	Maximum Temperature Measured Inside the Element
Polyester	160°C
Polypropylene	110°C
Paper	160°C
Polyphenylene Sulphide	160°C



Temperature monitored inside the capacitor.

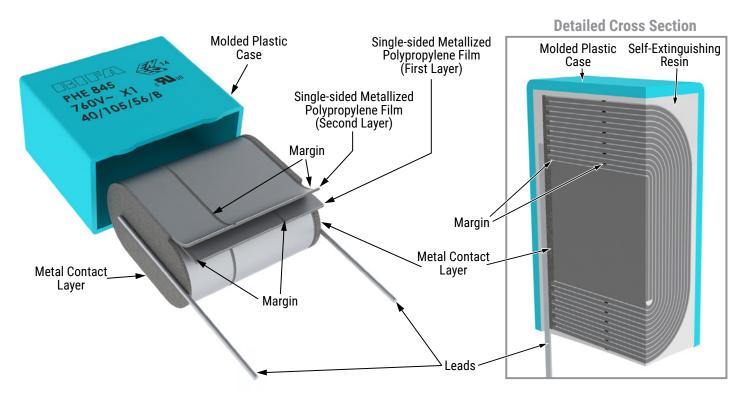
Selective Soldering Recommendations

Selective dip soldering is a variation of reflow soldering. In this method, the printed circuit board with through-hole components to be soldered is preheated and transported over the solder bath, as in normal flow soldering, without touching the solder. When the board is over the bath, it is stopped. Pre-designed solder pots are lifted from the bath with molten solder only at the places of the selected components, and then pressed against the lower surface of the board to solder the components.

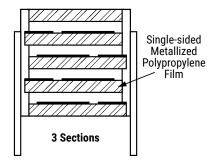
The temperature profile for selective soldering is similar to the double-wave flow soldering outlined in this document. **However, instead of two baths, there is only one with a time from 3 to 10 seconds.** In selective soldering, the risk of overheating is greater than in double-wave flow soldering. Great care must be taken so that the parts do not overheat.



Construction

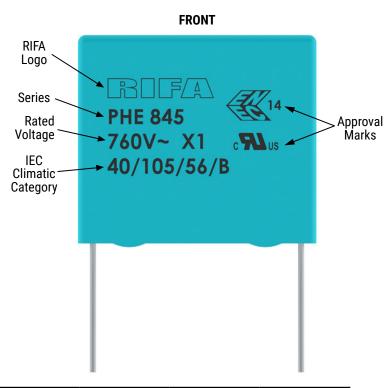


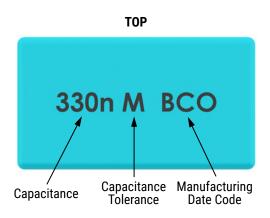
Winding Scheme





Marking





Mar	Manufacturing Date Code (IEC-60062)									
Year	Code	Month	Code							
2010	Α	January	1							
2011	В	February	2							
2012	С	March	3							
2013	D	April	4							
2014	Е	May	5							
2015	F	June	6							
2016	Н	July	7							
2017	J	August	8							
2018	К	September	9							
2019	L	October	0							
2020	М	November	N							
2021	N	December	D							
2022	Р									
2023	R									
2024	S									
2025	Т									
2026	U									
2027	V									
2028	W									
2029	X									
2030	A									



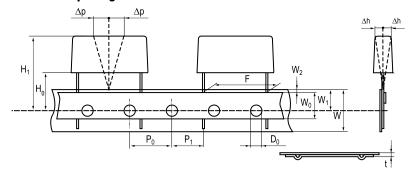
Packaging Quantities

DD DH DM DT DF	D13 D14 D15	6.5 8.0	14.5	26.0				
DM DT		8.0		20.0	234	300	600	440
DT	D15		16.0	26.0	186	250	500	352
		9.0	18.5	26.0	308	250	500	308
DF	D16	11.0	21.5	26.0	253	200	400	253
	D17	7.0	16.5	26.0	216	300	600	396
DR	D18	10.5	19.0	26.0	264	200	400	264
DY	D19	15.5	24.5	26.0	176	110	250	176
DW	D20	13.5	23.0	26.0	209	160	300	209
FK	F03	13.5	23.0	31.5	171		250	171
FE	F11	10.5	20.5	31.5	216		350	216
FG	F12	11.5	22.5	31.5	198		300	198
FM	F13	14.5	24.5	31.5	153		250	153
FR	F14	17.5	28.0	31.5	126			126
FS	F15	19.0	29.0	31.5	117			117
FV	F16	21.0	30.0	31.5	108			108
FH	F17	21.0	12.5	31.5	108			108
FT	F18	31.0	18.5	31.5	72			72
FQ	F19	27.5	16.0	31.5	81			81
DV	DOO	16 E	22.0	41.0	105			105
								105 91
								119
								140
								84 54
	FK FE FG FM FR FS FV FH FT	DY D19 DW D20 FK F03 FE F11 FG F12 FM F13 FR F14 FS F15 FV F16 FH F17 FT F18 FQ F19 RK R02 RM R03 RH R04 RF R05 RP R06	DY D19 15.5 DW D20 13.5 FK F03 13.5 FE F11 10.5 FG F12 11.5 FM F13 14.5 FR F14 17.5 FS F15 19.0 FV F16 21.0 FH F17 21.0 FT F18 31.0 FQ F19 27.5 RK R02 16.5 RM R03 19.0 RH R04 15.0 RF R05 13.0 RP R06 21.0	DY D19 15.5 24.5 DW D20 13.5 23.0 FK F03 13.5 23.0 FE F11 10.5 20.5 FG F12 11.5 22.5 FM F13 14.5 24.5 FR F14 17.5 28.0 FS F15 19.0 29.0 FV F16 21.0 30.0 FH F17 21.0 12.5 FT F18 31.0 18.5 FQ F19 27.5 16.0 RK R02 16.5 32.0 RM R03 19.0 36.0 RH R04 15.0 26.0 RF R05 13.0 24.0 RP R06 21.0 38.0	DY D19 15.5 24.5 26.0 DW D20 13.5 23.0 26.0 FK F03 13.5 23.0 31.5 FE F11 10.5 20.5 31.5 FG F12 11.5 22.5 31.5 FM F13 14.5 24.5 31.5 FR F14 17.5 28.0 31.5 FS F15 19.0 29.0 31.5 FV F16 21.0 30.0 31.5 FV F16 21.0 30.0 31.5 FT F18 31.0 18.5 31.5 FQ F19 27.5 16.0 31.5 FQ F19 27.5 16.0 41.0 RH R04 15.0 26.0 41.0 RF R05 13.0 24.0 41.0 RP R06 21.0 38.0 41.0	DY D19 15.5 24.5 26.0 176 DW D20 13.5 23.0 26.0 209 FK F03 13.5 23.0 31.5 171 FE F11 10.5 20.5 31.5 216 FG F12 11.5 22.5 31.5 198 FM F13 14.5 24.5 31.5 153 FR F14 17.5 28.0 31.5 126 FS F15 19.0 29.0 31.5 117 FV F16 21.0 30.0 31.5 108 FH F17 21.0 12.5 31.5 108 FT F18 31.0 18.5 31.5 72 FQ F19 27.5 16.0 31.5 81 RK R02 16.5 32.0 41.0 105 RM R03 19.0 36.0 41.0 119 <td>DY D19 15.5 24.5 26.0 176 110 DW D20 13.5 23.0 26.0 209 160 FK F03 13.5 23.0 31.5 171 FE F11 10.5 20.5 31.5 216 FG F12 11.5 22.5 31.5 198 FM F13 14.5 24.5 31.5 153 FR F14 17.5 28.0 31.5 126 FS F15 19.0 29.0 31.5 117 FV F16 21.0 30.0 31.5 108 FH F17 21.0 12.5 31.5 108 FT F18 31.0 18.5 31.5 72 FQ F19 27.5 16.0 31.5 81 RK R02 16.5 32.0 41.0 105 RM R03 19.0 36.0</td> <td>DY D19 15.5 24.5 26.0 176 110 250 DW D20 13.5 23.0 26.0 209 160 300 FK F03 13.5 23.0 31.5 171 250 FE F11 10.5 20.5 31.5 216 350 FG F12 11.5 22.5 31.5 198 300 FM F13 14.5 24.5 31.5 153 250 FR F14 17.5 28.0 31.5 126 FS F15 19.0 29.0 31.5 117 FV F16 21.0 30.0 31.5 108 FH F17 21.0 12.5 31.5 108 FT F18 31.0 18.5 31.5 72 FQ F19 27.5 16.0 31.5 81 RM R03 19.0 36.0 41.0</td>	DY D19 15.5 24.5 26.0 176 110 DW D20 13.5 23.0 26.0 209 160 FK F03 13.5 23.0 31.5 171 FE F11 10.5 20.5 31.5 216 FG F12 11.5 22.5 31.5 198 FM F13 14.5 24.5 31.5 153 FR F14 17.5 28.0 31.5 126 FS F15 19.0 29.0 31.5 117 FV F16 21.0 30.0 31.5 108 FH F17 21.0 12.5 31.5 108 FT F18 31.0 18.5 31.5 72 FQ F19 27.5 16.0 31.5 81 RK R02 16.5 32.0 41.0 105 RM R03 19.0 36.0	DY D19 15.5 24.5 26.0 176 110 250 DW D20 13.5 23.0 26.0 209 160 300 FK F03 13.5 23.0 31.5 171 250 FE F11 10.5 20.5 31.5 216 350 FG F12 11.5 22.5 31.5 198 300 FM F13 14.5 24.5 31.5 153 250 FR F14 17.5 28.0 31.5 126 FS F15 19.0 29.0 31.5 117 FV F16 21.0 30.0 31.5 108 FH F17 21.0 12.5 31.5 108 FT F18 31.0 18.5 31.5 72 FQ F19 27.5 16.0 31.5 81 RM R03 19.0 36.0 41.0



Lead Taping & Packaging (IEC 60286-2)

Lead Spacing 22.5 - 27.5 mm



Taping Specification

Description	Symbol	Dimensions (mm)		
		Lead Space		Tolerance
		22.5	27.5	Tolerance
Lead Spacing	F	22.5	27.5	+0.6/-0.1
Carrier Tape Width	W	18	18	+1/-0.5
Hold Down Tape Width	W _o	5	5	Minimum
Hole Position	W ₁	9	9	+0.75/-0.5
Hold Down Tape Position	W ₂	3	3	Maximum
Feed Hole Diameter	D ₀	4	4	±0.2
Feed-hole Lead Space *	P_0	12.7	12.7	±0.2 **
Centering of the Lead Wire	P ₁	7.8	5.3	±0.7
Component Alignment	Δh	2	2	±2
Deviation Tape - Plane	Δр	1.3	1.3	Maximum
Tape Thickness	t	0.9	0.9	Maximum
Height of Component from Tape Center	H ₀ ***	18.5	18.5	±0.5

^{*}Available also 15mm

^{**}Maximum 1 mm on 20 lead spaces

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



KEMET Electronics Corporation Sales Offices

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