

# PME271E Series Metallized Impregnated Paper, Class X1, 300 VAC

## Overview

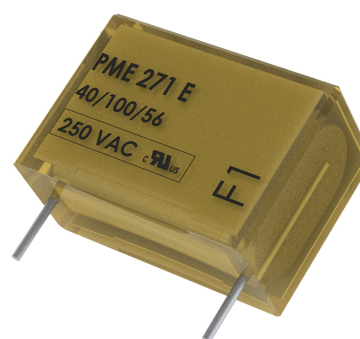
The PME271E Series consists of multilayer metallized paper, encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94 V-0.

## Applications

Typical applications include worldwide use as an electromagnetic interference suppressor in all X1 and across-the-line applications.

## Benefits

- Approvals: ENEC, UL
- Rated voltage: 300 VAC 50/60 Hz
- Capacitance range: 0.01 – 0.22  $\mu$ F
- Lead spacing: 15.2 – 25.4 mm
- Capacitance tolerance:  $\pm 20\%$  for  $C \leq 0.1 \mu\text{F}$ ,  $\pm 10\%$  for  $C > 0.1 \mu\text{F}$
- Climatic category: 40/110/56/B, IEC 60068-1
- Tape and reel packaging in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of  $-40^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$
- 100% screening factory test at 2,150 VDC
- Highest possible safety regarding active and passive flammability



## Legacy Part Number System

PME271	E	(D)	510(0)	M	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
X1, Metallized Paper	E = 300	Blank = Standard D = 22.5	The last three digits represent significant figures. The first digit specifies the total number of digits.	M = $\pm 20\%$ (for $C \leq 0.1 \mu\text{F}$ ) K = $\pm 10\%$ (for $C > 0.1 \mu\text{F}$ )	See Ordering Options Table

## New KEMET Part Number System

P	277	Q	E	103	M	300	A
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	X1, Metallized Paper	Q = 15.2 C = 20.3 S = 22.5 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = $\pm 20\%$ (for $C \leq 0.1 \mu\text{F}$ ) K = $\pm 10\%$ (for $C > 0.1 \mu\text{F}$ )	300 = 300	See Ordering Options Table

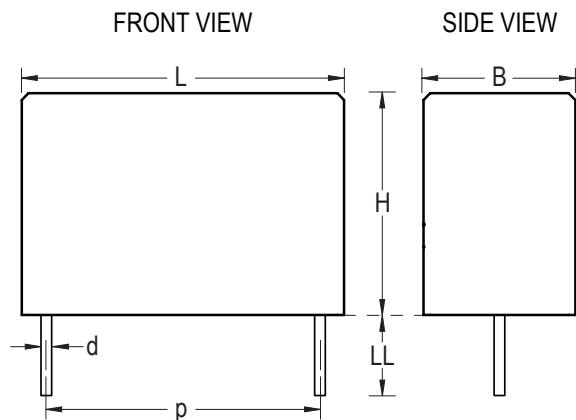
## Benefits cont'd

- Excellent self-healing properties which ensure long life even when subjected to frequent over-voltages
- Good resistance to ionization due to impregnated paper dielectric
- High dV/dt capability
- Impregnated paper ensures excellent stability and reliability properties, particularly in applications with continuous operation

## 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
15.2	<b>Standard Lead and Packaging Options</b>			
	Bulk (Bag) – Short Leads	6 +0/-1	C	R06
	Bulk (Bag) – Max Length Leads	30 +5/-0	A	R30
	Tape & Reel (Standard Reel)	H <sub>0</sub> = 18.5 +/-0.5	L	R19T0
	<b>Other Lead and Packaging Options</b>			
	Tape & Reel (Large Reel)	H <sub>0</sub> = 18.5 +/-0.5	P	R19T1
20.3	<b>Standard Lead and Packaging Options</b>			
	Bulk (Tray) – Short Leads	6 +0/-1	C	R06
	Bulk (Bag) – Max Length Leads	30 +5/-0	A	R30
	Tape & Reel (Standard Reel)	H <sub>0</sub> = 18.5 +/-0.5	L	R19T0
	<b>Other Lead and Packaging Options</b>			
	Tape & Reel (Large Reel)	H <sub>0</sub> = 18.5 +/-0.5	P	R19T1
22.5	<b>Standard Lead and Packaging Options</b>			
	Bulk (Tray) – Short Leads	6 +0/-1	C	R06
	Bulk (Bag) – Max Length Leads	30 +5/-0	A	R30
	Tape & Reel (Standard Reel)	H <sub>0</sub> = 18.5 +/-0.5	L	R19T0
	<b>Other Lead and Packaging Options</b>			
	Tape & Reel (Large Reel)	H <sub>0</sub> = 18.5 +/-0.5	P	R19T1
25.4	<b>Standard Lead and Packaging Options</b>			
	Bulk (Tray) – Short Leads	6 +0/-1	C	R06
	Bulk (Bag) – Max Length Leads	30 +5/-0	A	R30

## Dimensions – Millimeters



Size Code	$p$		$B$		$H$		$L$		$d$	
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
QE	15.2	+/-0.4	5.2	Maximum	10.5	Maximum	18.5	Maximum	0.8	+/-0.05
QN	15.2	+/-0.4	7.3	Maximum	13	Maximum	19	Maximum	0.8	+/-0.05
QS	15.2	+/-0.4	8.5	Maximum	14.3	Maximum	18.5	Maximum	0.8	+/-0.05
CE	20.3	+/-0.4	7.6	Maximum	14	Maximum	24	Maximum	0.8	+/-0.05
CP	20.3	+/-0.4	11.3	Maximum	16.5	Maximum	24	Maximum	0.8	+/-0.05
SJ	22.5	+/-0.4	8	Maximum	17	Maximum	27	Maximum	0.8	+/-0.05
SP	22.5	+/-0.4	10	Maximum	19	Maximum	27	Maximum	0.8	+/-0.05
SU	22.5	+/-0.4	12	Maximum	22	Maximum	27	Maximum	0.8	+/-0.05
EE	25.4	+/-0.4	10.6	Maximum	16.1	Maximum	30.5	Maximum	1	+/-0.05
EJ	25.4	+/-0.4	12.1	Maximum	19	Maximum	30.5	Maximum	1	+/-0.05
Note: See Ordering Options Table for lead length (LL) options.										



## Performance Characteristics

Rated Voltage	300 VAC 50/60 Hz	
Capacitance Range	0.01 – 0.22 $\mu$ F	
Capacitance Tolerance	$\pm 20\%$ for $C \leq 0.1 \mu\text{F}$ , $\pm 10\%$ for $C > 0.1 \mu\text{F}$	
Temperature Range	$-40^{\circ}\text{C}$ to $+110^{\circ}\text{C}$	
Climatic Category	40/110/56/B	
Approvals	ENEC, UL	
Dissipation Factor	Maximum Values at $+23^{\circ}\text{C}$	
	1 kHz	1.3%
Test Voltage Between Terminals	The 100% screening factory test is carried out at 2,150 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.	
Insulation Resistance	Minimum Values Between Terminals	
	$C \leq 0.33 \mu\text{F}$	$\geq 12,000 \text{ M}\Omega$
	$C > 0.33 \mu\text{F}$	$\geq 4,000 \text{ M}\Omega \cdot \mu\text{F}$
In DC Applications	Recommended voltage $\leq 630 \text{ VDC}$	

## Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384–14	$1.25 \times V_R$ 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 $0.75 \text{ mm}$ or $98 \text{ m/s}^2$
Bump	IEC 60068–2–29 Test Eb	1,000 bumps at $390 \text{ m/s}^2$
Change of Temperature	IEC 60068–2–14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384–14	$V_R + 20$ surge pulses at 2.5 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384–14	IEC 60384–1, IEC 60695–11–5 Needle-flame test
Damp Heat Steady State	IEC 60068–2–78 Test Cab	$+40^{\circ}\text{C}$ and 93% RH, 56 days

## Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	SE/0140-15C
	UL 1283 (310 VAC)	E100117

## Environmental Compliance

All KEMET EMI capacitors are RoHS Compliant.

**Table 1 – Ratings & Part Number Reference**

Capacitance Value (μF)	Maximum Dimensions in mm			Lead Spacing (p)	f <sub>o</sub> (MHz)	dV/dt (V/μs)	New KEMET Part Number	Legacy Part Number
	B	H	L					
0.010	5.2	10.5	18.5	15.2	16	1200	P277QE103M300(1)	PME271E510M(1)
0.015	5.2	10.5	18.5	15.2	13	1200	P277QE153M300(1)	PME271E515M(1)
0.022	7.3	13	18.5	15.2	9.8	1200	P277QN223M300(1)	PME271E522M(1)
0.033	7.3	13	18.5	15.2	7	1200	P277QN333M300(1)	PME271E533M(1)
0.047	8.5	14.3	18.5	15.2	6.4	1200	P277QS473M300(1)	PME271E547M(1)
0.068	7.6	14	24	20.3	5.2	600	P277CE683M300(1)	PME271E568M(1)
0.1	11.3	16.5	24	20.3	4.1	600	P277CP104M300(1)	PME271E610M(1)
0.068	8	17	27	22.5	4.7	600	P277SJ683M300(1)	PME271ED5680M(1)
0.1	8	17	27	22.5	4.1	600	P277SJ104M300(1)	PME271ED6100M(1)
0.15	10	19	27	22.5	3.2	600	P277SP154K300(1)	PME271ED6150K(1)
0.22	12	22	27	22.5	2.5	600	P277SU224K300(1)	PME271ED6220K(1)
0.15	10.6	16.1	30.5	25.4	3.3	400	P277EE154K300(1)	PME271E615K(1)
0.22	12.1	19	30.5	25.4	2.6	400	P277EJ224K300(1)	PME271E622K(1)
Capacitance Value (μF)	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	f <sub>o</sub> (MHz)	dV/dt (V/μs)	New KEMET Part Number	Legacy Part Number

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

## Soldering Process

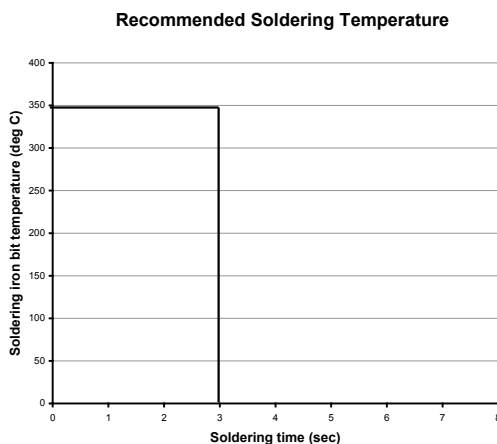
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 – 221°C for the new alloys. As a result, the heat stress to the components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Polypropylene capacitors are especially sensitive to heat (the melting point of polypropylene is 160 – 170°C). Wave soldering can be destructive, especially for mechanically small polypropylene capacitors (with lead spacing of 5 mm to 15 mm), and great care has to be taken during soldering. The recommended solder profiles from KEMET should be used. Please consult KEMET with any questions. In general, the wave soldering curve from IEC Publication 61760-1 Edition 2 serves as a solid guideline for successful soldering. Please see Figure 1.

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

Do not place the polypropylene capacitor through an adhesive curing oven to cure resin for surface mount components. Insert through-hole parts after the curing of surface mount parts. Consult KEMET to discuss the actual temperature profile in the oven, if through-hole components must pass through the adhesive curing process. A maximum two soldering cycles is recommended. Please allow time for the capacitor surface temperature to return to a normal temperature before the second soldering cycle.

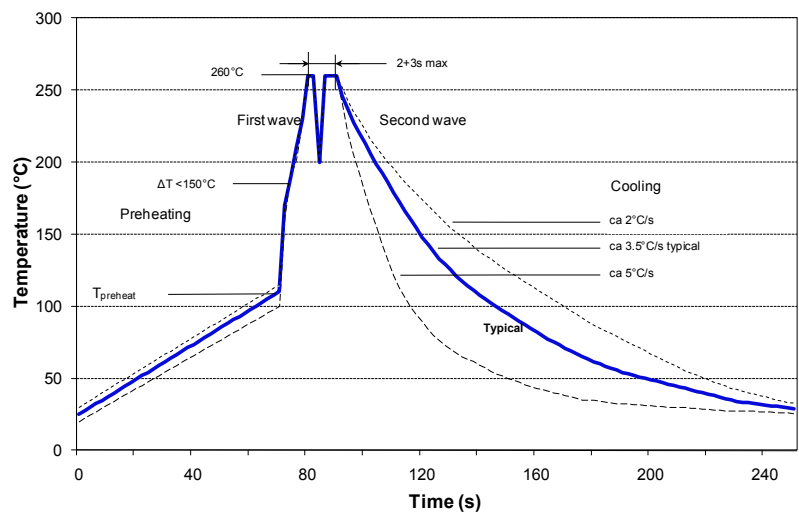
### Manual Soldering Recommendations

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



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

### Wave Soldering Recommendations



## Soldering Process cont'd

### Wave Soldering Recommendations cont'd

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

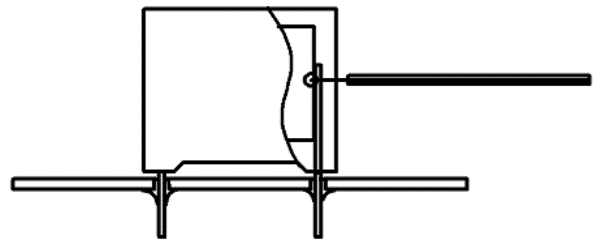
Figure 1

Dielectric Film Material	Maximum Preheat Temperature			Maximum Peak Soldering Temperature	
	Capacitor Pitch ≤ 10 mm	Capacitor Pitch = 15 mm	Capacitor Pitch > 15 mm	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm
Polyester	130°C	130°C	130°C	270°C	270°C
Polypropylene	100°C	110°C	130°C	260°C	270°C
Paper	130°C	130°C	140°C	270°C	270°C
Polyphenylene Sulphide	150°C	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	110°C
Paper	160°C
Polyphenylene sulphide	160°C



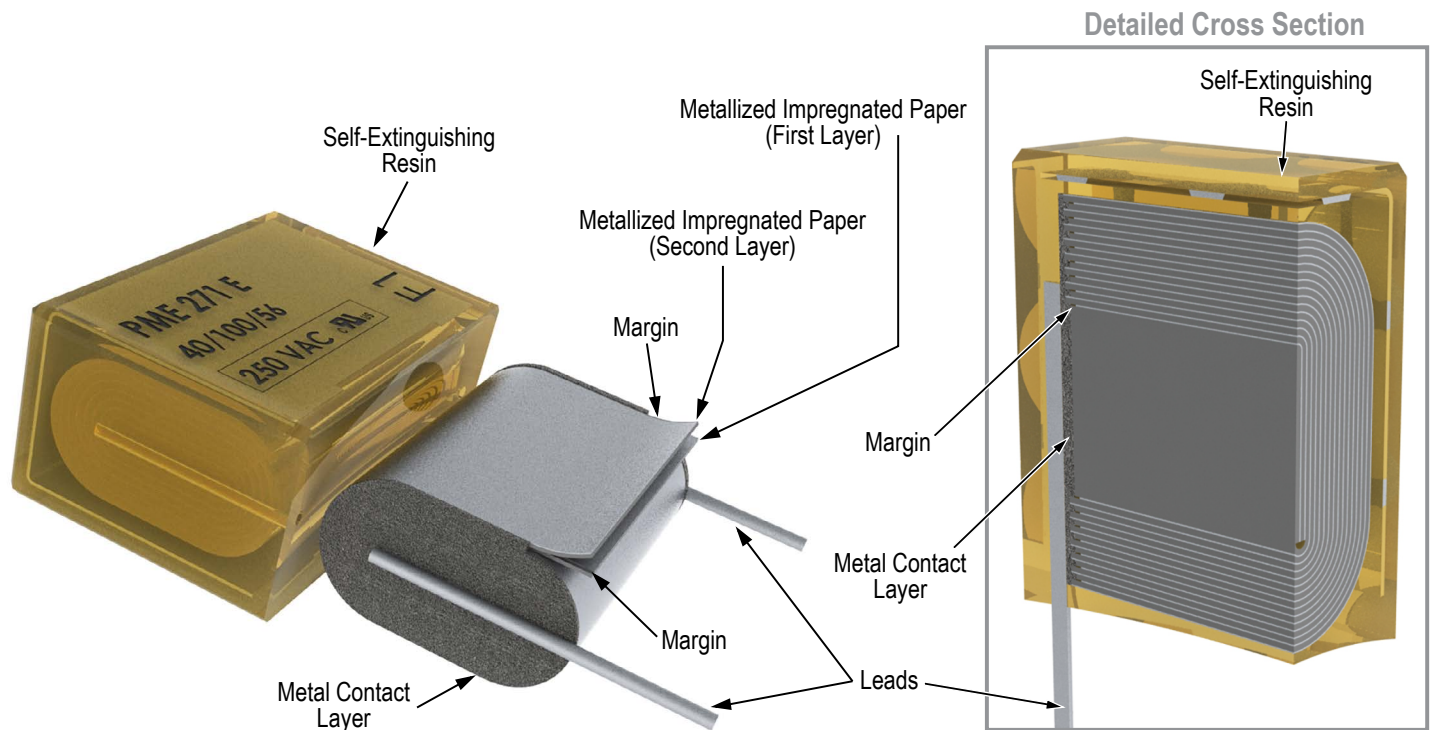
*Temperature monitored inside the capacitor.*

### Selective Soldering Recommendations

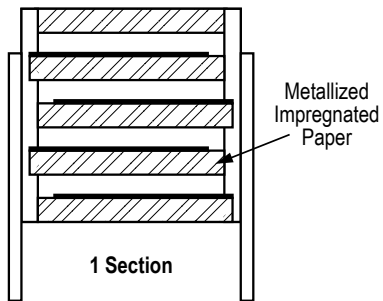
Selective dip soldering is a variation of reflow soldering. In this method, the printed circuit board with through-hole components to be soldered is preheated and transported over the solder bath as in normal flow soldering without touching the solder. When the board is over the bath, it is stopped and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

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

## Construction

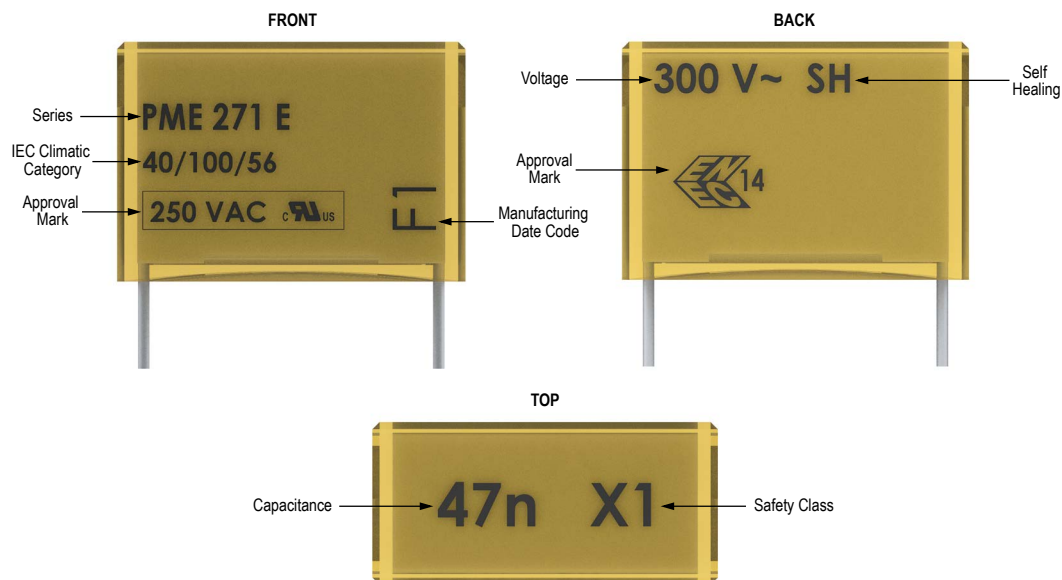


## Winding Scheme





## Marking

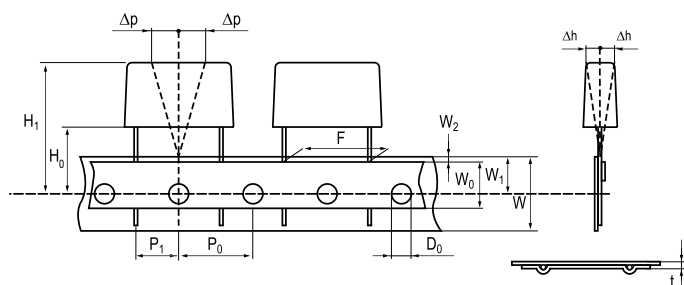


## Packaging Quantities

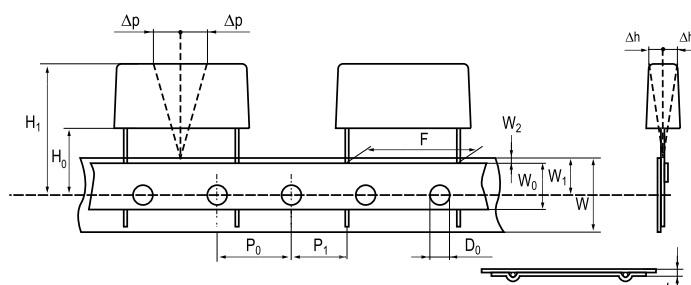
Lead Spacing (mm)	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel ø 360 mm	Large Reel ø 500 mm
15.2	5.5	12.5	18	1000	500	600	
	6.5	12.5	18	600	400	400	
	7.5	14.5	18	600	400	400	
	8.5	16	18	400	250	400	
	5.2	10.5	18.5	1000	500	600	
	5.5	11	18.5	1000	500	500	
	6	12.5	18.5	600	400	400	
	7.3	13	18.5	600	400	400	800
	7.8	13.5	18.5	600	400	400	
	8.5	14.3	18.5	500	300	350	
20.3	7.6	14	24	1500	250	250	500
	8.4	14	24	1200	200	250	500
	9	15	24	1500	200	250	
	11.3	16.5	24	1000	150	180	400
22.5	8	17	27	1200	200		
	10	19	27	1000	150	200	
	12	22	27	800	100	180	350
25.4	10.6	16.1	30.5	1000	150		
	10.5	17.3	30.5	1000	100		
	12.1	19	30.5	800	100		
	15.3	22	30.5	600	75		

## Lead Taping & Packaging (IEC 60286–2)

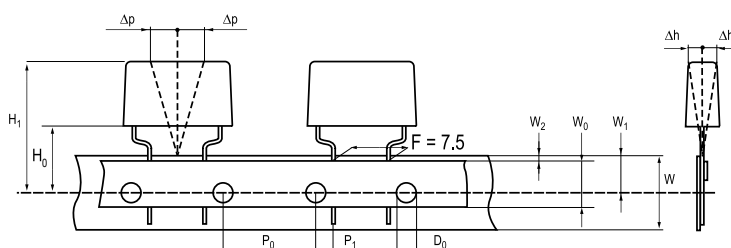
### Lead Spacing 10.2 – 15.2 mm



### Lead Spacing 20.3 – 22.5 mm



### Formed Leads from 10.2 to 7.5 mm



## Taping Specification

Dimensions in mm								Standard IEC 60286–2
Lead spacing	+6/-0.1	F	Formed 7.5	10.2	15.2	20.3	22.5	F
Carrier tape width	+/-0.5	W	18	18	18	18	18	18 <sup>+1/-0.5</sup>
Hold-down tape width	+/-0.3	W <sub>0</sub>	9	12	12	12	12	
Position of sprocket hole	+/-0.5	W <sub>1</sub>	9	9	9	9	9	9 <sup>+0.75/-0.5</sup>
Distance between tapes	Maximum	W <sub>2</sub>	3	3	3	3	3	3
Sprocket hole diameter	+/-0.2	D <sub>0</sub>	4	4	4	4	4	4
Feed hole lead spacing	+/-0.3	P <sub>0</sub> <sup>(1)</sup>	12.7 <sup>(4)</sup>	12.7	12.7	12.7	12.7	12.7
Distance lead – feed hole	+/-0.7	P <sub>1</sub>	3.75	7.6	5.1	8.9	5.3	P <sup>1</sup>
Deviation tape – plane	Maximum	Δp	1.3	1.3	1.3	1.3	1.3	1.3
Lateral deviation	Maximum	Δh	2	2	2	2	2	2
Total thickness	+/-0.2	t	0.7	0.7	0.7	0.7	0.9 <sup>MAX</sup>	0.9 <sup>MAX</sup>
Sprocket hole/cap body	Nominal	H <sub>0</sub> <sup>(2)</sup>	18 <sup>+2/-0</sup>	18 <sup>+2/-0</sup>	18 <sup>+2/-0</sup>	18 <sup>+2/-0</sup>	18.5 <sup>+/-0.5</sup>	18 <sup>+2/-0</sup>
Sprocket hole/top of cap body	Maximum	H <sub>1</sub> <sup>(3)</sup>	35	35	35	35	58	58 <sup>MAX</sup>

(1) Maximum cumulative feed hole error, 1 mm per 20 parts.

(2) 16.5 mm available on request.

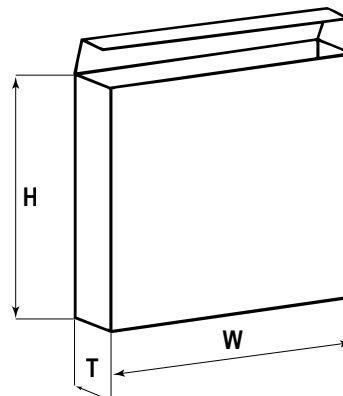
(3) Depending on case size.

(4) 15 mm available on request.

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

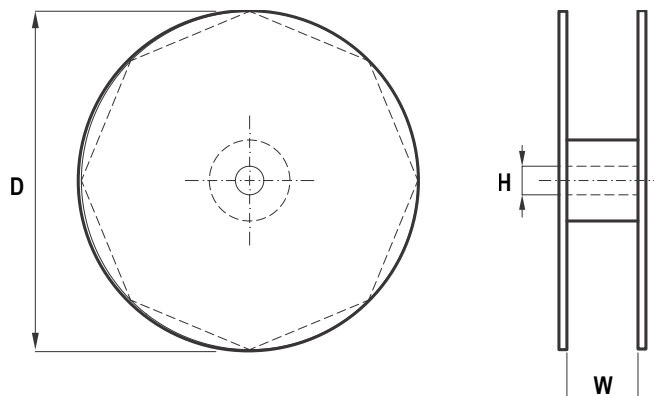
### Ammo Specifications

Series	Dimensions (mm)		
	H	W	T
R4x, R4x+R, R7x, RSB	360	340	59
F5A, F5B, F5D			
F6xx, F8xx			
PHExxx, PMExxx, PMRxxx	330	330	50



### Reel Specifications

Series	Dimensions (mm)		
	D	H	W
R4x, R4x+R, R7x, RSB	355 500	30	55 (Max)
F5A, F5B, F5D		25	
F6xx, F8xx			
PHExxx, PMExxx, PMRxxx	360 500	30	46 (Max)



### Manufacturing Date Code (IEC–60062)

Y = Year, Z = Month			
Year	Code	Month	Code
2000	M	January	1
2001	N	February	2
2002	P	March	3
2003	R	April	4
2004	S	May	5
2005	T	June	6
2006	U	July	7
2007	V	August	8
2008	W	September	9
2009	X	October	O
2010	A	November	N
2011	B	December	D
2012	C		
2013	D		
2014	E		
2015	F		
2016	H		
2017	J		
2018	K		
2019	L		
2020	M		

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[PME271E615KR30](#) [PME271E622KR30](#) [PME271ED5680MR30](#) [PME271ED6100MR30](#) [PME271ED6150KR30](#)  
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[PME271M447MR30](#) [PME271M468MR30](#) [PME271M510MR30](#) [PME271M515MR30](#) [PME271M522MR30](#)  
[PME271M533MR30](#) [PME271M547MR30](#) [PME271M568MR30](#) [PME271M610MR30](#) [PME271M615KR30](#)  
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[PME271MD6270KR30](#) [PME271MD6330KR30](#) [PME271Y410MR30](#) [PME271Y415MR30](#) [PME271Y422MR30](#)  
[PME271Y433MR30](#) [PME271Y447MR30](#) [PME271Y468MR30](#) [PME271Y510MR30](#) [PME271Y515MR30](#)  
[PME271Y522MR30](#) [PME271Y533MR30](#) [PME271Y547MR30](#) [PME271Y568MR30](#) [PME271Y610MR30](#)  
[PME271YA4100MR30](#) [PME271YA4150MR30](#) [PME271YA4220MR30](#) [PME271YA4250MR30](#) [PME271YA4330MR30](#)  
[PME271YA4470MR30](#) [PME271YB4680MR30](#) [PME271YB5100MR30](#) [PME271YB5150MR30](#) [PME271YB5220MR30](#)  
[PME271YC5330MR30](#) [PME271YC5470MR30](#) [PME271YC5680MR30](#) [PME271YD5330MR30](#) [PME271YD5470MR30](#)  
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[PME271Y447MR033G](#) [PME271Y510MR22T0](#) [PME271Y522MR035](#) [PME271Y522MR05](#) [PME271Y433MR035](#)  
[PME271YD6100MR035K](#) [PME271YA4220MR05](#) [PME271M522MR19T0](#) [PME271M533KR30](#) [PME271M510MR19T0](#)  
[PME271M533MR19T0](#)