

# 6EHMEP 01EHIH 'IVEQMG (MWG 'ETEGMXSVW Safety Standard Recognized, C900, Encapsulated, AC Type, X1 440 VAC/Y2 300 VAC (Industrial Grade)



## Overview

KEMET's 900 encapsulated radial leaded ceramic disc capacitor is a high performance, high reliability component. It is designed for use in a wide range of applications, including power supplies, motor drives, and industrial machinery. The capacitor is constructed from high quality ceramic materials and is encapsulated in a protective plastic housing. This design provides excellent protection against environmental factors such as moisture, dust, and vibration. The capacitor is available in a variety of capacitance values and voltage ratings, making it a versatile component for many different applications. For more information, please visit our website at [www.kemet.com](http://www.kemet.com).

The capacitor is designed to meet the requirements of the IEC 60384-1 standard. It is available in a variety of capacitance values and voltage ratings, making it a versatile component for many different applications. The capacitor is designed to provide excellent performance and reliability in a wide range of operating conditions. For more information, please visit our website at [www.kemet.com](http://www.kemet.com).



## Ordering Information

C9	7	1	U	472	M	Z	W	D	A	A	7317
Ceramic Series	& SH] (MEQIXVTEGMRK	01EH Spec. WTEGMRK	9 ! 7EJIX	Capacitance 'SHI T	Capacitance *Tolerance	Rated :SPX	(MIPIC) BKQT	(LW MKR) LEV	01EH SR #3K	Failure Rate	4 EGOE] ' 7TIG
C9 = Ceramic 900 Series	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 6 = 13.0 mm 8 = 15.0 mm	7 = 7.5 mm 1 = 10.0 mm	9 ! 7EJIX	Two XW MKR HM KM RYQFIV SJ ^IVSIW	J = ±5% M = ±10% N = ±20%	Z = X1 440 VAC /Y2 300 VAC	7 ! 70 Y = Y5P ; ! = 9 V = Y5V	( ! ( M W B Kink C = Outside Kink ( ! - R W M H I Kink	01EH SR #3K Vertical C = Outside Kink ( ! - R W M H I Kink	Failure Rate N/A	4 EGOE] ' 7TIG See 4 EGOE] K M R K C-Spec 3 V H I V M R K Options Table" below

- 1 (YI XS E LMKL VMWO SJ EVGMRK -RWMHI /MRO PIEH GSR#KYVEXMSR GERRSX FI G EZEMPEFPI SR GETEGMXSVW [MXL PIEH WTEGMRK SJ QQ SV KVIEXIV % TSXIRXM [MXL E QQ PIEH WTEGMRK STXMSR IWTIGMEPP] MR LMKL LYQM HMX] IRZM VSRQIRX GPIEVERGI VIUYMVIQIRXW
- 2 'ETEGMXSV FSH] HMEQIXIV [MPP PMQMX EZEMPEFPI PIEH WTEGMRK ERH TEGOEKMRK SJ XLMW HSGYQIRX XS HIXIVQMRI EZEMPEFMPMX]
- 3 :IVXMGEP /MRO 3YXWMHI /MRO ERH -RWMHI /MRO PIEH GSR#KYVEXMSRW GERR PIRKXL MW SRP] EZEMPEFPI SR GETEGMXSVW [MXL WXVEMKLX PIEHW PIEH GSR#KYV /)1)8
- 4 &YPO TEGOEKMRK PIEH PIRKXL EZEMPEFMPMX] MW HITIRHIRX YTSR 01EH 'SR#KYVE ZIVMJ] EZEMPEFMPMX] SJ E WTIGM#G PIEH PIRKXL STXMSR \*SV RSRWXERHEVH PIEH

## Packaging C-Spec Ordering Options Table

Packaging Type	Lead Length (mm) <sup>1</sup>	Packaging Ordering Code (C-Spec)
Ammo Pack	— WXVEMK LX PIEHW — TVIJSVQI H PIEHW	
& YPO & EK	3.0±1.0	;0
	3.5±1.0	;0
	4.0±1.0	;0
	4.5±1.0	;0
	5.0±1.0	;0
	20.0 minimum	;0

<sup>1</sup> 4VIJSVQI H GVMQTIH PIEH GSR#KYVEXMSRW MRGPYHI ZIVXMGEP OMRO SYXWMHI O WIGXMSRW SJ XLMW HSGYQIRX JSV JYVXLIV HIXEMPW  
<sup>2</sup> :IVXMGEP /MRO 3YXWMHI /MRO ERH -RWMHI /MRO PIEH GSR#KYVEXMSRW GERR PIRKXL MW SRP] EZEMPEFPI SR GETEGMXSVW [MXL WXVEMK LX PIEHW PIEH GSR#KYV /)1)8  
<sup>3</sup> \*SV RSRWXERHEVH PIEH PIRKXL MRUYMVMIW TPIEWI GSRXEGX /)1)8  
<sup>4</sup> 0IEH PIRKXL SJ QQ QMRMQYQ SRP] EZEMPEFPI JSV WXVEMK LX PIEHW

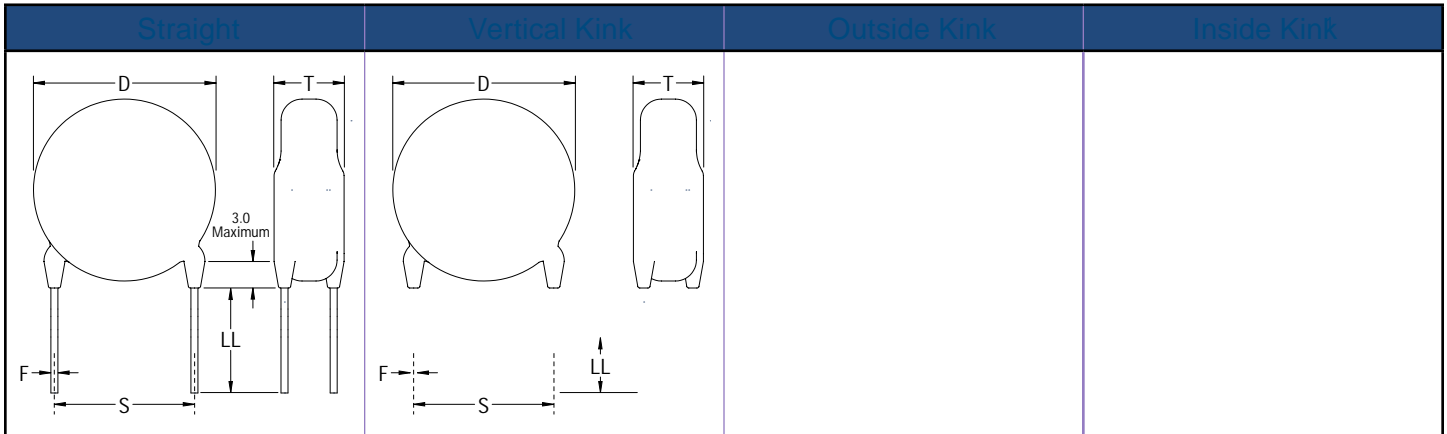
## Benefits

- Reliable operation up to 125°C
  - Class X1/Y2
- u QQ ERH QQ PIEH WTEGMRK  
 u 0IEH 4F JVII ERH 6S,7 'SQTPMERX  
 u ,EPSKIR JVII  
 u 'ETEGMXERGI SJJIVMRKW VERKMRK JVSQ T\* YT XS R\*  
 u %ZEMPEFPI GETEGMXERGI XSPIVERGIW SJ r r ERH r  
 u ,MKL VIPMEFMPMX]  
 u 4VIJSVQI H GVMQTIH SV WXVEMK LX PIEH GSR#KYVEXMSRW  
 u 2SR TSPEV HIZMGI QMRMQM^MRK MRWXEPPEXMSR GSRGIVRW  
 u )RGETWYPEXMSR QIIXW %EQQEFMPMX] WXERHEVH 90 :i

## Applications

- 8]TMGEP ETPMGEXMSRW MRGPYHI  
 u 0MRI XS PMRI 'PEWW < #PXIVMRK  
 u 0MRI XS KVSYRH 'PEWW = #PXIVMRK  
 u %R XIRRE GSYTPMRK  
 u 4VMQEV] ERH WIGSRHEV] GSYTPMRK W[MXGLMRK TS[IV WYTTPMIW  
 u 0MRI HMWXYVFERGIW WYTTVIWWMSR QSXS VW ERH QSXS V GSRXVSPW

## Lead Configurations



## Approval Standard and Certification No.

Safety Standard	Standard No.	Subclass	Working Voltage	Certificate No.
: ( ) ) 2 )'	- )' i	X1	440 VAC	40036415
		Y2	300 VAC	
90 CAN/CSA	90 i ERH E60384-14	X1	440 VAC	E356389
		Y2	300 VAC	

8 LIWI HIZMGIW EVI : ( ) 2 )' ERH 90 VIGSKRM^IH JSV ERXIRRE GSYTPMRK ERH %' PMRI  
 -)' i ERH 90 i

## Environmental Compliance

8 LIWI HIZMGIW EVI ,EPSKIR JVII ERH 6 S,7 'SQTPMERX 8 LIJ QIIX EPP V  
 directives.



## General Specifications/Performance Characteristics

Dielectric/Temperature Characteristic	SL	Y5P	Y5U	Y5V
3TIVEXMRK 8IQTIVEXYVI 6ERKI — q' XS q'				
'ETEGMXERGI 'LERKI [MXL 6IJIVIRGI XSTQ q' ERH : (' %TTPMIH 8°C				

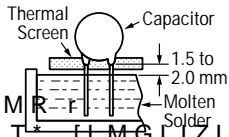
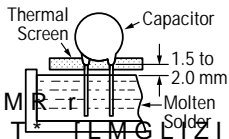


Table 2 – Performance & Reliability: Test Methods and Conditions

Item	Specification	Test Method																				
3TIVEXMRK 8IQTIVEXYVI 6ERKI	— { ' XS { ' }	— { ' XS { ' }																				
Between lead wires	2S JEMPYVIW	8LI GETEGMXSV WLEPP RSX FI HEQE ETTPMIH FIX[IIR XLI PIEH [MVIW JSV																				
(MIPIGXVMG 7XVIRKXL &SH] -RWYPEXMSRS JEMPYVIW		8LI XIVQMREP W PIEHW ; WLEPP FI GSRRIGXIH XSKIXLIV % Q XEP J MW XMKLXP] [VETTIH EVSYRH XLI FSH] SJ GETEGMXSV EX E HMWXERGI J EFSYX X JVSQ IEGL XIVQMREP 8LI GETEGMXSV MW MRWIVXIH MRXS E GSRXEMR PTH [MXL FEPPW ETTVS\MQEXIP] QG MMEQIXIV :%' VQW MW ETTPMIH JSV W GSRHW FIX XLI GETEGMXSV PIEH [MV																				
-RWYPEXMSR 6IWMWXERGI 1QMRMQYQ		8LI MRWYPEXMSR VIWMWXERGI WLE ETTPMIH EJXIV r WIGSRHW SJ GLE																				
Capacitance	;MXLMR WTIGM r IH	XSPIVERGI																				
(MWWMTXMSR *EGXSV (*SV 5	<table border="1"> <thead> <tr> <th>Temperature Characteristics</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>= 4 = 9</td> <td>(* •</td> </tr> <tr> <td>Y5V</td> <td>(* •</td> </tr> <tr> <td>70</td> <td>T* 5 Z T* 5 Z</td> </tr> </tbody> </table>	Temperature Characteristics	Specification	= 4 = 9	(* •	Y5V	(* •	70	T* 5 Z T* 5 Z	= 4 = 9 ERH = : 'ETEGMXERGI MW QIEWY :VQW SV PIWW r q' 70 'ETEGMXERGI MW QIEWYVIH EX 1, ^ r q'												
	Temperature Characteristics	Specification																				
= 4 = 9	(* •																					
Y5V	(* •																					
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	C = Nominal capacitance																					
8IQTIVEXYVI 'LEVEGXFV MWX MWL	<table border="1"> <thead> <tr> <th>Temperature Characteristics</th> <th>Capacitance Change</th> </tr> </thead> <tbody> <tr> <td>Y5P</td> <td>;MXLMR</td> </tr> <tr> <td>Y5V</td> <td>;MXLMR b —</td> </tr> <tr> <td>70</td> <td>— b ppm°C {' b {'</td> </tr> </tbody> </table>	Temperature Characteristics	Capacitance Change	Y5P	;MXLMR	Y5V	;MXLMR b —	70	— b ppm°C {' b {'	<table border="1"> <thead> <tr> <th>Step</th> <th>Temperature</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+20±2°C</td> </tr> <tr> <td>2</td> <td>— r {'</td> </tr> <tr> <td>3</td> <td>+20±2°C</td> </tr> <tr> <td>4</td> <td>+85±2°C</td> </tr> <tr> <td>5</td> <td>+20±2°C</td> </tr> </tbody> </table> <p>Pre-treatment: 'ETEGMXSV MW WXSVIH EX r { ' JSV LSY condition JSV r LSYVW FIJSVI QIEWYVIQIRX</p>	Step	Temperature	1	+20±2°C	2	— r {'	3	+20±2°C	4	+85±2°C	5	+20±2°C
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1	+20±2°C																					
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5	+20±2°C																					
Terminal 7XVIRKXL	Tensile	0IEH [MVI SV GETEGMX break.																				
	&IRHMRK	0IEH [MVI SV GETEGMX break.																				
		;MXL XLI XIVQMREXMSR MR MXW RSV E] MXW FSH] MR WYGL E QERRIV XLEX XLI ZIVXMGEPE XIRWMPJ JSVGI SJ 2 MW E HMVIGXMSR SJ MXW E\MW ERH EGXMRK M SJ XLI WTIGMQIR ;MXL XLI XIVQMREXMSR MR MXW RSV F] MXW FSH] MR WYGL E QERRIV XLEX XLI ZIVXMGEPE QEWV JSVGI SJ 2 MW XLIR XLI XIVQMREXMSR 8LI FSH] SJ XLI WTIGM E TIVMSH SJ XS WIGSRHW XLVSYKL ER MR XLI ZIVXMGEPE TPERI ERH XLIR V WYQI XLI WEQI TIVMSH SJ XMQI XLMW STIVEXM 3RI FIRH MQQIH MEXIP] JSPPS[IH F] E WIG direction.																				

1 p6SSQ 'SRHMXMSRq MW HI r RIH EW JSPPS[W 8IQTIVEXYVI b q', YQMhMX] b

Table 2 – Performance & Reliability: Test Methods and Conditions cont'd

Item	Specification	Test Method	
7SPHIVFMP	01EH [MVI WLSYPH LEZI WSPHIV MR XLI E\MEP SJ MXW GMVGY	8LI PIEH [MVI SJ XLI GETEGMXSV MW YR WLSYPH LEZI E\MEP 245°C ±5°C.	
7SPHIVMRK )JJIGX 2SR 4VILIEX	Appearance	2S ZMWYEP HIJIG	
	-6	1	
	(MIPIG; 7XVIRK	Per item 1	
Capacitance	= 4 = 9 ERH = : ;MXLMR r 70 ;MXLMR r SV r MW PEVKIV	 <p>Pre-treatment: 'ETEGMXSV MW WXS VIH EX XLIR TPEGIH EX' WSSQ GSRH measurements. Post-treatment: 'ETEGMXSV MW WXS VIH JSV condition.</p>	
7SPHIVMRK )JJIGX 4VILIEX	Appearance	2S ZMWYEP HIJIG	
	-6	1	
	(MIPIG; 7XVIRK	Per item 1	
Capacitance	= 4 = 9 ERH = : ;MXLMR r 70 ;MXLMR r SV r MW PEVKIV	 <p>Pre-treatment: 'ETEGMXSV MW WXS VIH EX XLIR TPEGIH EX' WSSQ GSRH measurements. Post-treatment: 'ETEGMXSV MW WXS VIH JSV condition.</p>	
&MEWIH ,YQMHHMX]	Appearance	2S ZMWYEP HIJIGX 7XIEH] 7XEXI ,YQMHHMX]EH ,YQMHHMX]	
	Capacitance	Temperature Characteristics	
		Capacitance Change	
		Y5P	;MXLMR r
		= 9	;MXLMR r
	Y5V	;MXLMR r	
	70	;MXLMR r r T* [LMGLIZIV MW PEVKIV	
(*	= 4 ERH = 9 QE = : QE\MQYQ	Post Treatment: 'ETEGMXSV MW WXS VIH JSV LSYVW EX VSSQ GSRH	
Q	70 0IWW XLER 5 ž 1SVI XLER T* 5 ž C = Nominal capacitance	Post Treatment: 'ETEGMXSV MW WXS VIH JSV LSYVW EX VSSQ GSRH	
-6	= 4 = : ERH = 9 QMRM 70 1 QMRMQYQ		
(MIPIG; 7XVIRK	2S JEMPYVIW		

1 p6SSQ 'SRHMXMSRq MW HI RIH EW JSPPS[W 8IQTIVEXYVI b q' ,YQMHHMX] b

Table 2 – Performance & Reliability: Test Methods and Conditions cont'd

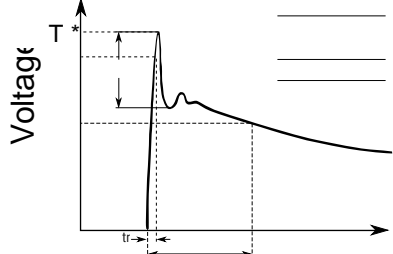
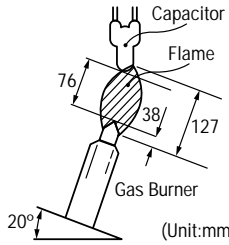
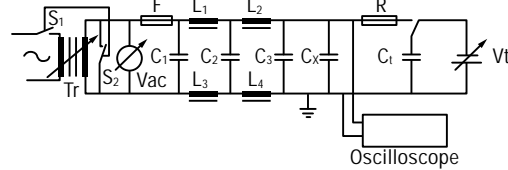
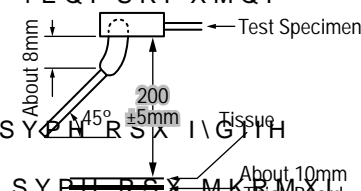
Item	Specification	Test Method						
Appearance Capacitance -6 , M K L Temperature 0 M J I	2 S Z M W Y E P H I J I = 4 = : E R H = 9 ; M 7 0 ; M X L M R r S V r [ L M G L I Z I V M W P E 1 Q M R M Q Y Q 7 0 1 Q M R M Q Y Q ( M I P I G X V M G 7 X V I R K X L 2 S J E M P Y V I W	Voltage  0.1 seconds.						
Flame Test	8 L I G E T E G M X S V J S P P S [ W <table border="1" data-bbox="456 888 807 1077"> <thead> <tr> <th>Cycle</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>b</td> <td>30 seconds maximum</td> </tr> <tr> <td>5</td> <td>60 seconds maximum</td> </tr> </tbody> </table>	Cycle	Time	b	30 seconds maximum	5	60 seconds maximum	 (Unit:mm)
Cycle	Time							
b	30 seconds maximum							
5	60 seconds maximum							
% G X M Z I * P E Q Q E F M P M X ]	8 L I G L I I W I G P S X L W L S Y P H R S X M K R M X I	 Oscilloscope						



Table 2 – Performance & Reliability: Test Methods and Conditions cont'd

Item		Specification	Test Method																	
4 E W W M Z I * P E Q Q		8 L I F Y V R M R K X M Q I W L S Y 8 L I X M W W Y I T E T I V W L S Y	8 L I G E T E G M X S V Y R H I V X I W X M W L I P [ L M G L F I W X T V S Q S X I W F Y V R M R K ) E G L W T ≠ E Q I S R I X M Q I  30 seconds 0 I R K X L S J ± 2.0 mm + E W F Y V R I V 35 hr minimum - R W M H I H M 6.5 D X mm 3 Y X W M H I H M 6.5 D X mm + E W F Y X E R I ↓ 95% minimum																	
Temperature ' ] G P I	Appearance	2 S Z M W Y E P H I J I G X	8 L I G E T E G M X S V M W W Y F N I G X I H X S Temperature Cycle <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Dwell Time (minutes)</th> <th>Transition Time (minutes)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>— —</td> <td>30</td> <td rowspan="4">3</td> </tr> <tr> <td>2</td> <td>Room temperature</td> <td>3</td> </tr> <tr> <td>3</td> <td>—</td> <td>30</td> </tr> <tr> <td>4</td> <td>Room temperature</td> <td>3</td> </tr> </tbody> </table> Pre-treatment: ' E T E G M X S V W L E P P F I W X S V I H E X placed at room condition J S V r L S Y V W Post-treatment ' E T E G M X S V M W W X S V I H J S V X S condition.	Step	Temperature (°C)	Dwell Time (minutes)	Transition Time (minutes)	1	— —	30	3	2	Room temperature	3	3	—	30	4	Room temperature	3
	Step	Temperature (°C)		Dwell Time (minutes)	Transition Time (minutes)															
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- 6	1 Q M R M Q Y Q																			
( M I P I G ) 7 X V I R K	2 S J E M P Y V I W																			

' p 6 S S Q ' S R H M X M S R q M W H I R I H E W J S P P S [ W 8 I Q T I V E X Y V I b q ' , Y Q M H M X ] b

## Soldering and Mounting Information

### Soldering:

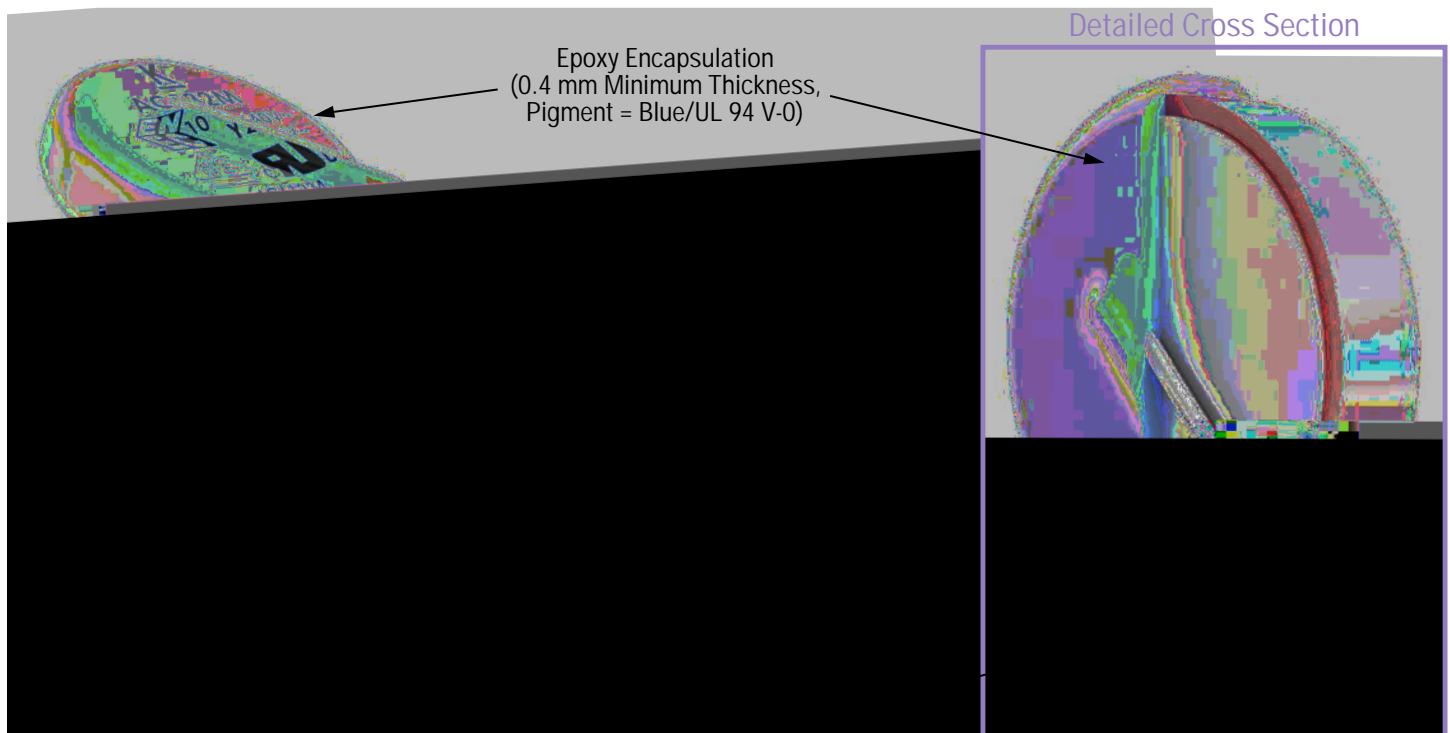
;LIR WSPHIVMRK XLMW TVSHYGX XS E 4'& 4;& HS RSX I\GIIH XLI WSPH  
 7YFNIGXMRK XLMW TVSHYGX XS I\GIWWMZI LIEXMRK GSYPH VI¥S[ XLI  
 VIWYPX MR XLIVQEP WLSGOW XLEX GER GVEGO XLI GIVEQMG IPIQIRX

;LIR WSPHIVMRK XLIWI GETEGMXSVW [MXL E WSPHIVMRK MVSR MX WL  
 u8QTIVEXYVI SJ MVSR XMT {' QE\MQYQ  
 u7SPHIVMRK MVSR [EXXEKI ; QE\MQYQ  
 u7SPHIVMRK XMQI WIGSRHW QE\MQYQ

### Cleaning (ultrasonic cleaning):

8S TIVJSVQ YPXVEWSRMG GPIERM RK SFWIVZI XLI JSPPS[MRK GSRHMX  
 u6MRWI FEXL GETEGMX] 3YXTYX SJ [EXXW TIV PMXIV SV PIWW  
 u6MRWMRK XMQI QMRYXI QE\MQYQ  
 u(S RSX ZMFVEXI XLI 4'& 4;& H MVIGXP]  
 u)\GIWWMZI YPXVEWSRMG GPIERM RK QE]PIEH XS JEXMKYI HIWXVYGXM

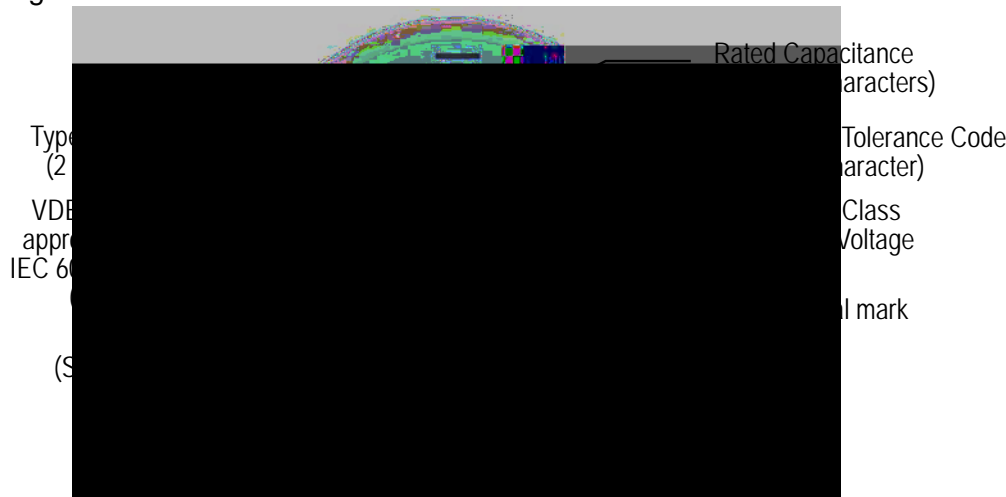
## Construction



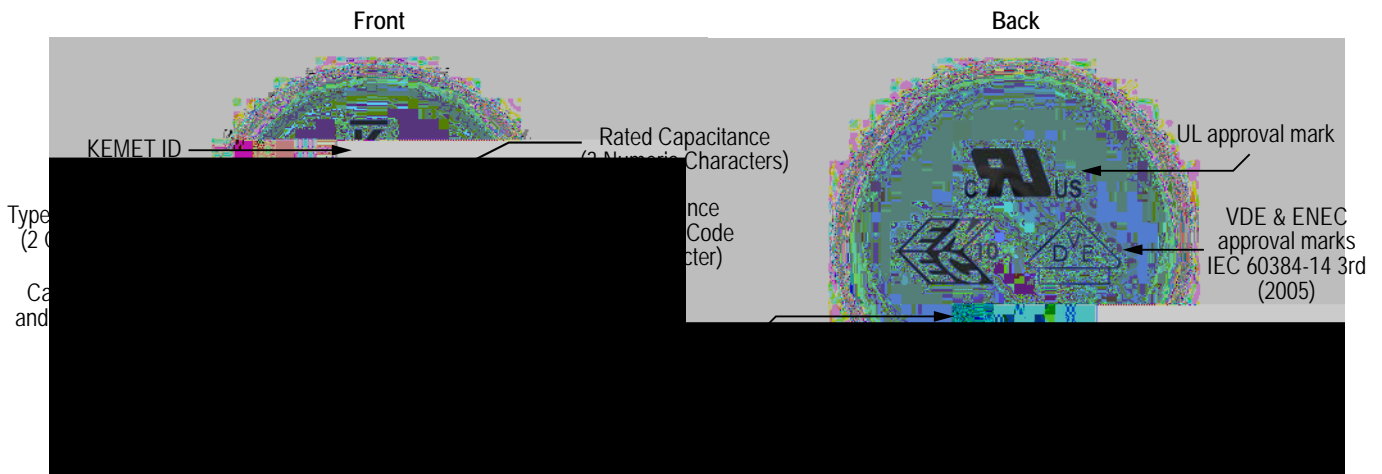
## Marking

8 LIWI GETEGMXSVW WLEPP FI WXEQTIH SV PEWIV QEVOIH [MXL /)1)8 W  
 VEXIH GETEGMXERGI ERH GETEGMXERGI XSPIVERGI GSHIW -R EHHMX  
 ERH E HEXI PSX GSHI JSV XVEGIEFMPMX] 1EVOMRK [MPP FI WYTTPMIH  
 FSH] %PP QEVOMRK WLEPP FI PIKMFPI XS EPPS[ JSV GPIEV MHIRXM#C  
 -PPYWXVEXIH FIPS[ MW ER I\EQTPI SJ XLI QEVOMRK JSVQEX ERH GSR  
 HMEQIXIVW • QQ

### Single Sided



### Double Sided



(EXI 0SX 'SHI )\TPEREXMSR

6	C	6	1234
0EWX HMKMX SJ JIEV	1ERYJEGXYVMRK	1SRXL	0EWX HMKMXW SJ
IK	1ERYJEGXYVMRK	1-9 = Jan - Sept	lot no.
6 = 2016	0SGEXMSR	A = October	
		N = November	
		( ! (IGIQFIV	

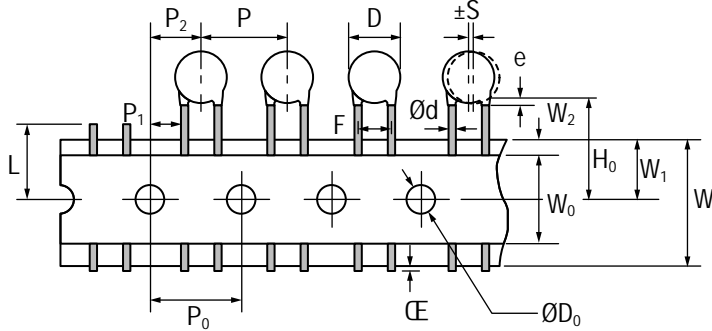
## Packaging Quantities

Capacitor Body Diameter (mm)	Body Diameter Code	Bulk Bag (Loose)	Ammo Pack (Carrier Tape)		
			Component pitch on carrier tape		
			12.7 mm	15 mm	25.4 mm
7.0	0	T M I G I W	F E K	1,000 pieces/box	1,000 pieces/box
8.0	1				
9.0	2				
10.0	3				
11.0	4				
12.0	5				
13.0	6				500 pieces/box
14.0	7				
15.0	8				

<sup>1</sup> 8LI &SHJ (MEQIXIV 'SHI MW PSGEXIH MR XLI XLMVH GLEVEGXIV TSWMXMSR SJ XLI S  
 FSHJ MR QMPPMQIXIVW \*SV QSVI MRJSVQEXMSR VIKEVHMRK XLI SVHIVMRK GSHI WI  
<sup>2</sup> \*SV HIXEMPW VIKEVHMRK GSQTSRIRX TMXGL SR GEVVMIV XETI WII %QQS 4EGO 8ET  
 HSGYQIRX

## Figure 1 - Ammo Pack Taping Format

5 mm and 7.5 mm Lead Spacing:



10 mm Lead Spacing:

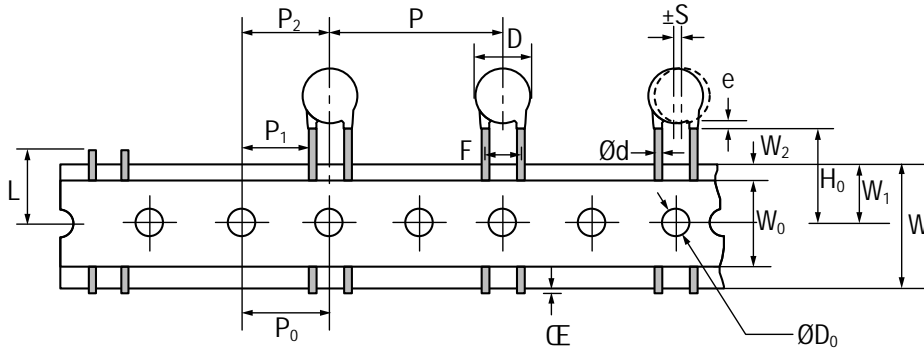


Table 3 – Ammo Pack Taping Specifications



<sup>1</sup> 4VIJVSQIH GVMQTIH PIEH GSR□KYVEXMSRW MRGPYHI ZIVXMGEP OMRO SYXWMHI O sections of this HSGYQIRX JSV JYVXLIV HIXEMPW

<sup>2</sup> %PWS VIJIVVIH XS EW PIEH PIRKXL MR XLMW HSGYQIRX

### Table 3 – Ammo Pack Taping Specifications cont'd

<sup>1</sup> 4VIJVSQIH GVMQTIH PIEH GSR#KYVEXMSRW MRGPYHI ZIVXMGEP OMRO SYXWMHI C  
sections of this HSGYQIRX JSV JYVXLIV HIXEMPW  
<sup>2</sup> %PWS VIJIVVIH XS EW PIEH PIRKXL MR XLMW HSGYQIRX

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### Application Notes:

Operating Temperature and Self-Generating Heat:

8LI WYVJEGI XIQTIVEXYVI SJ E GETEGMXSV WLSYPH FI OITX FIPS[ XLI  
WYVI XS XEOI MRXS EGGSYRX XLI LIE X KIRIVEXIH F] XLI GETEGMXSV M  
TYPWI GYVVIRX SV WMQMPEV GYVVIRX MX QE] WIPJ KIRIVEXI LIE X HY  
LIE XMRK WLSYPH RSX I\GIIH q' [LMPI STIVEXIH EX ER EXQSWTLIVI X

Handling - Vibration and Impact:

(S RSX I\TSWI XLIWI HIZMGIW SV XLIMV PIEHW XS I\GIWWMZI WLSGO S

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND CAUSE FUMING OR PARTIAL DISPERSION WHEN THE PRODUCT IS USED.

## KEMET Electronics Corporation Sales Offices

\* SV E GSQTPIXI PMWX SJ SYV KPSFEP WEPIW SJ<sup>®</sup> GIW TPIEWI ZMWMX

### Disclaimer

%PP TVSHYGX WTIGM<sup>®</sup> GEXMSRW WXEXIQIRXW MRJSVQEXMSR ERH HEXE GSPPIGXZIP] XLI p  
GLIGOMRK ERH ZIVMJ]MRK XLI I\XIRX XS [LMGL XLI -RJSVQEXMSR GSRXEMRIH MR XLMW TYFPMO  
%PP -RJSVQEXMSR KMZIR LIVIMR MW FIPMIZIH XS FI EGGYVEXI ERH VIPMEFPI FYX MX MW TVIW  
7XEXIQIRXW SJ WYMXEFMPMX] JSV GIVXEMR ETTPMGEXMSRW EVI FEWIH SR /)1)8 )PIGXVSRMGW  
ETTPMGEXMSRW FYX EVI RSX MRXIRHIH XS GSRWXMXYXI i ERH /)1)8 WTIGM<sup>®</sup> GEPP] HMWGPEMO  
8LI -RJSVQEXMSR MW MRXIRHIH JSV YWI SRP] F] GYWXSQIVW [LS LEZI XLI VIUYMWMXI I\TIVMIR  
XIGLRMGEP EHZMGI MRJIVVIH JVSQ XLMW -RJSVQEXMSR SV SXLIV[MWI TVSZMHIH F] /)1)8 [MXL  
SFPMKEXMSR SV PMEFMPMX] JSV XLI EHZMGI KMZIR SV VIWYPXW SFXEMRIH  
%PXL SYKL /)1)8 HIWMKRW ERH QERYJEGXYVIW MXW TVSHYGXW XS XLI QSWX WXVMRKIRX UYEP  
JEMPYVIW QE] WXMPP SGGYV %GGSVHMRKP] GYWXSQIV ETTPMGEXMSRW [LMGL VIUYMVI E LMK  
WYGL EW MRWXEPPEXMSR SJ TVSXIGXMZI GMVGYMXV] SV VIHRRHERGMIW MR SVHIV XS IRWYV  
TVSTIVX] HEQEKI  
%PXL SYKL EPP TVSHYGXiVIPEXIH [EVRMRKW GEYXMSRW ERH RSXIW QYWX FI SFWIVZIH XLI GY  
QIEWYVIW QE] RSX FI VIUYMVIH

/)1)8 MW E VIKMWXIVIH XVEHIQEVO SJ /)1)8 )PIGXVSRMGW 'SVTSVEXMSR