

' + ( M I P I G X V M G i : ( ' ' S Q Q

## Overview

1) 8 mWH M I P I G X N E G I W'Q E \ M Q Y Q G M V E G T Y T N P X M G S B X L I S [ S V R V S E R W X E F S M P M X ]  
 S T I V E X X I M R K V E R M G S R W M W I X F I R P I G E T E G I G X E R I G X E I W M U W M M G I W L M F R M S X W  
 8 L ) P I G X V S Q M S R M P R W W I Q F I P E N X I W M E P O W L E R M G I E T E G M N K X E I R M G T X & M Q R Z H S P X E R K H  
 % W W S G M E G X L N E S / R E G X + V I M M I P I G X V M G F S E W R X I W P M G L M F R M G I E T E G M N K X E I R M G I R X G S  
 ' P E W Q M E X I V S Q C T P S R S R K X L W I R W E W W I G E X E M Q S F R M X I R Q X T I V E E T E G M Q I E R R Q M W Q X M S X I H  
 X I Q T I V I S X Q V I I R W E R E W R Y K M J X W H W S R E R I X T T Q J V S - Q ' Q S q'

## & I R I & X W

u — XqS q ' S T I V E X X I M R K V E X R K H

- Lead (Pb)-free, RoHS, and REACH compliant
- EIA 201, 0402, 0603, 0805, 1206, 1210, 1808, 1812, 1825, 2220, and 2225 case sizes

u ( Z 8 X E / E M B K W : : : : : E R

:

u E T E G M S X J E R I M R K V M R Q S T \* Y T X S q \*

u % E P G E P G M X B R V G E I S G I W T \* r T \*

r T \* r r r r E R r

- No piezoelectric noise

- Extremely low ESR and ESL

u , M X K W Q E M F M P M X ]

u , M X K W Q N V I G X E F M P M X ]

## 3 V H I V M R K - R J S V Q E X M S R

C	C	J	3	G	A	C	TU
Ceramic	Case Size (L" x W")	7 T I G M & Series	GE X C apacitance 'S H I T'	Capacitance Tolerance	Rated : S P X :(	E M B E Y Termination ( I W M K R ) * M R M W L	4 E G O E K M R K Grade (C-Spec)
	0201	C = Standard	8 [ S W K M R M & I G M R X & W r	T *	8 = 10	G = C0G	A = N/A ^ !
	0402		R Q F I S / J I V S W ' ! r	T *	4 = 16		1 E X X I R
	0603		9 W I J S i T * ( ! r	T *	3 = 25		See p 4 E G O E K M R K C-Spec
	0805		9 W I J S i T * * ! r		5 = 50		3 V H I V M R K Options
	1206		I K T * !	+ ! r	1 = 100		8 E F I P q S [
	1210		I K T * !	. ! r	2 = 200		
	1808			/ ! r	A = 250		
	1812			1 ! r			
	1825						
	2220						
	2225						

<sup>1</sup> Flexible termination option is available. Please see FT-CAP product bulletin C1062\_C0G\_FT-CAP\_SMD

<sup>2</sup> Additional capacitance tolerance offerings may be available. Contact KEMET for details.

<sup>3</sup> % H H M X M S R E P X I V Q M R E X M S R & R M W L S T X M S R W Q E ] F I E Z E M P E F P I ' S R X E G X / ) 1 ) 8 J S V

4 E G O E K M R K ' 7 T I G 3 V H I V M R K 3 T X M S R W 8 E F P I

4 E G O E K M R K	8 ] T J 4 E G O E K M R K + V E H I 3 V H I V M R K ' S H I ' 7 T I G
& Y B E K 9 R Q E V O I H	2 S X V I U Y M V I H &
7" Reel/Unmarked	TU
13" Reel/Unmarked	7411 (EIA 0603 and smaller case size) )- % ERH PEVK
6 I I P 9 R Q E V O I H	7081
6 I I P 9 R Q E V O I H	7082

<sup>1</sup> Default packaging is "Bulk Bag". An ordering code C-Spec is not required for "Bulk Bag" packaging.

<sup>1</sup> 8 L I X I V Q W p 1 E V O I H q E R H p 9 R Q E V O I H q T I V X E M R X S P E W I V Q E V O M R K S T X M S R S J G E T E G M X S V W X L E X L E Z I R S X F I I R P E W I V Q E V O I H 8 L I S T X M S R X S P E W I V Q E V O M W R S  
<sup>2</sup> 8 L I Q Q T M X G L S T X M S R E P P S [ W J S V H S Y F P I X L I T E G O E K M R K U Y E R X M X ] S J G E T E G M X W M ^ I H I Z M G I W \* S V Q S V I M R J S V Q E X M S R V I K E V H M R K Q Q T M X G L S T X M S R W I I p 8 E T I

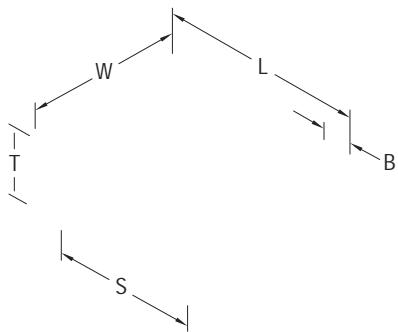
& I R I d X W G S R X H

- u 4 V I J G V E V T E I G M X S P E R O M S R I U Y I E B M R X M , ^ V E R K I
- u 2 G T E E G M X G E R G M X V W T I X G S T P W I H H Z S X E K I
- u 2 I K P D T E M G M G E R G M X V W T I X G S Q T I V E J S Y Q H q ' X S q '
- u 2 G T E E G M X G E R G M X Q M
- u 2 S R M B M Q W M Q M M M R R K P G B M M S R R W
- u T Y Q B X X R M T P B K Q H M R E M M B B [ M B K G I P P W B H I V E F M P M X ]
- u 7 R T A F X M V Q M R E M M S R M P Y S R W Y I W X 4 F Q N M R Q Y Q

% T T P M G E X M S R W

8 ] T M E G T E T P P M G M E R X G M B S / R M M X M G X Y R R G R K G M M V X A S M S R G W V G W K M X P W W M G Y V V H I R G X S Y T P M R K F ] T E M P W I X M B R K V S M P I K R E X K T T V I F P V S G E S T O R K U - ® G % B , ^ G R ( H € @ G R ( H € p t p P Q € - s E á à p

( M Q I R W M S R W i 1 M P P M Q I X I V W - R G L I W



Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs)  
COG Dielectric, 10 – 250 VDC (Commercial Grade)

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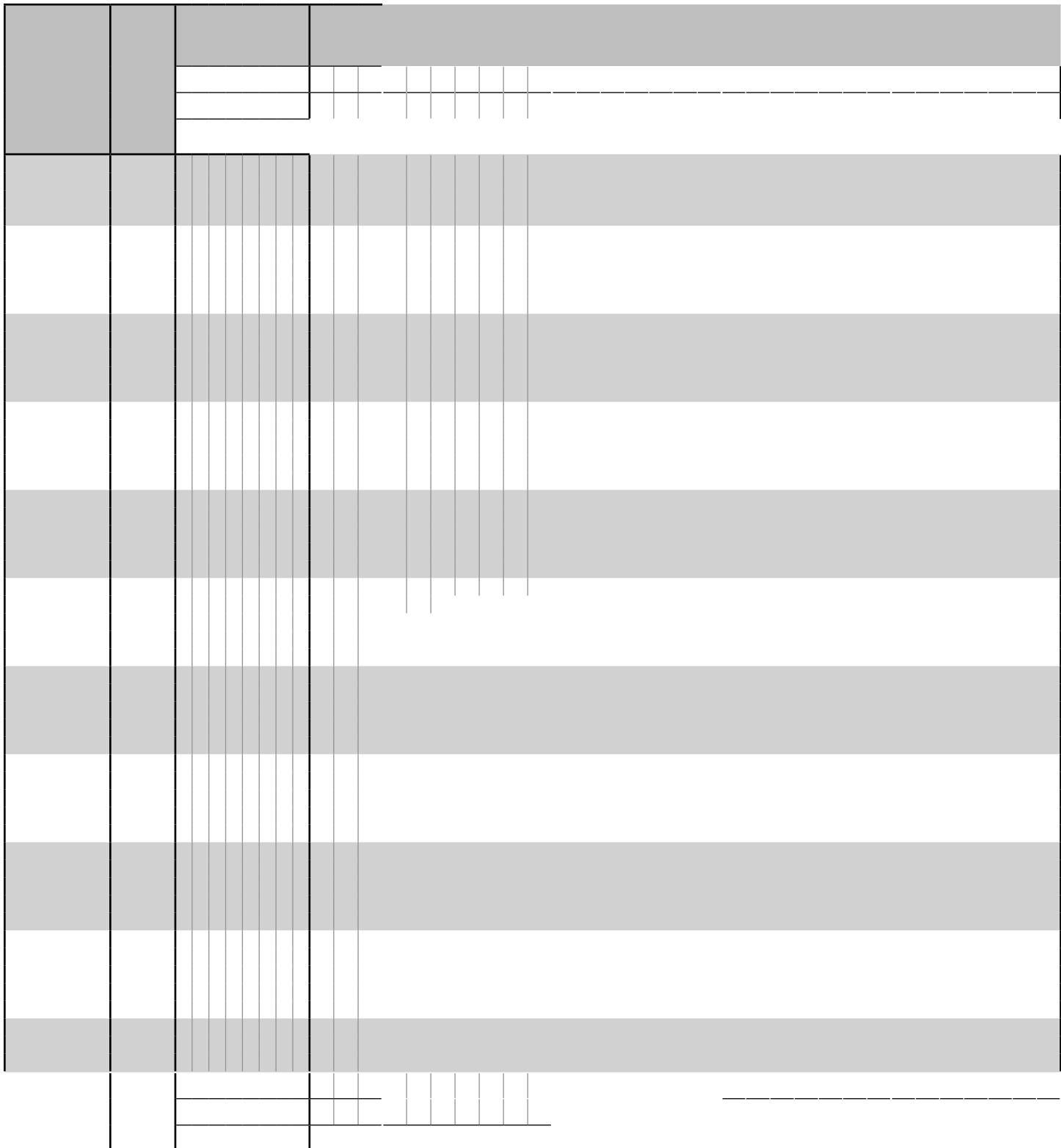
8EFP I % i 'ETEGMXERGI 6ERKI 7IPIGXMSR ;EXIVJEPP



'ETEGMXERGI VERKI -RGPYHIW ) HIGEHI ZEPYIW SRP] M I  
\z %ZEMPEFPI SRP] MR ( . / 1 XSPIVERGI  
\s %ZEMPEFPI SRP] MR . / 1 XSPIVERGI  
8LIWI TVSHYGXW EVI TVSXIGXIH YRHIV 97 4EXIRXW

SXLIV TEXIRXW

8EFP I % i 'ETEGMXERGI 6ERKI 7IPIGXMSR ;EXIVJEPP



'ETEGMXERGI VERKI -RG PYHIW ) HIGEHIZEPYIW SRP] M I  
\z %ZEMPEFPI SRP] MR ( . / 1 XSPIVERGI  
\s %ZEMPEFPI SRP] MR . / 1 XSPIVERGI  
8LIWI TVSHYGXW EVI TVSXIGXIH YRHIV 97 4EXIRXW

SXLIV TEXIRXW

8EFP! & i 'ETEGMXERGI 6ERKI 7PIGXMSR ;EXIVJEPP



'ETEGMXERGI VERKI -RGPYHIW ) HIGEHI ZEPYIW SRP] M I  
8LIWI TVSHYGXW EVI TVSXIGXIH YRHIV 97 4EXIRXW

SXLIV TEXIRXW

8EFP I % i 'LMT 8LMGORIWW 8ETI 6IIP 4EGOEKMRK 5Y

8LMGORIWW		8LMGORIWW		NETIV		5YEAR		XMAXPEWXMGS		5YEARXMX]	
'SHI	7M^I	6ERKI	QQ	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP
AB	0201	0.30±0.03	15,000	0	0	0	0	0	0	0	0
BB	0402	0.50±0.05	10,000	50,000	0	0	0	0	0	0	0
BD	0402	0.55±0.05	10,000	50,000	0	0	0	0	0	0	0
'*	0603	0.80±0.07	4,000	15,000	0	0	0	0	0	0	0
CH	0603	0.85±0.07	4,000	10,000	0	0	0	0	0	0	0
DM	0805	0.70±0.20	4,000	15,000	0	0	0	0	0	0	0
DN	0805	0.78±0.10	4,000	15,000	0	0	0	0	0	0	0
DP	0805	0.90±0.10	4,000	15,000	0	0	0	0	0	0	0
DE	0805	1.00±0.10	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
(*)	0805	1.10±0.10	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
DG	0805	1.25±0.15	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
EB	1206	0.78±0.10	4,000	10,000	4,000	4,000	10,000	10,000	10,000	10,000	10,000
EC	1206	0.90±0.10	0	0	4,000	4,000	10,000	10,000	10,000	10,000	10,000
ED	1206	1.00±0.10	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
EE	1206	1.10±0.10	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
) *	1206	1.20±0.15	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
EH	1206	1.60±0.20	0	0	2,000	2,000	8,000	8,000	8,000	8,000	8,000
* &	1210	0.78±0.10	0	0	4,000	4,000	10,000	10,000	10,000	10,000	10,000
* '	1210	0.90±0.10	0	0	4,000	4,000	10,000	10,000	10,000	10,000	10,000
* )	1210	1.00±0.10	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
**	1210	1.10±0.10	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
* +	1210	1.25±0.15	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
* ,	1210	1.55±0.15	0	0	2,000	2,000	8,000	8,000	8,000	8,000	8,000
* 1	1210	1.70±0.20	0	0	2,000	2,000	8,000	8,000	8,000	8,000	8,000
* .	1210	1.85±0.20	0	0	2,000	2,000	8,000	8,000	8,000	8,000	8,000
*/	1210	2.10±0.20	0	0	2,000	2,000	8,000	8,000	8,000	8,000	8,000
NC	1706	1.00±0.15	0	0	4,000	4,000	10,000	10,000	10,000	10,000	10,000
0 *	1808	1.00±0.15	0	0	2,500	2,500	10,000	10,000	10,000	10,000	10,000
GB	1812	1.00±0.10	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
GD	1812	1.25±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
GH	1812	1.40±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
GG	1812	1.55±0.10	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
GK	1812	1.60±0.20	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
GJ	1812	1.70±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
GN	1812	1.70±0.20	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
GM	1812	2.00±0.20	0	0	500	500	2,000	2,000	2,000	2,000	2,000
HB	1825	1.10±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
HE	1825	1.40±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
HG	1825	1.60±0.20	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
JB	2220	1.00±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
JD	2220	1.30±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
JE	2220	1.40±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
. *	2220	1.50±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
JG	2220	1.70±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
JL	2220	2.00±0.20	0	0	500	500	2,000	2,000	2,000	2,000	2,000
KE	2225	1.40±0.15	0	0	1,000	1,000	4,000	4,000	4,000	4,000	4,000
8LMGORIWW	8LMGORIWW	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP	6IIP
'SHI	7M^I	6ERKI	QQ	4ETIV	5YEARXMX]	4PEWXMGS	5YEARXMX]	4PEWXMGS	5YEARXMX]	4PEWXMGS	5YEARXMX]

4EGOEKIUYERXMX] FEWIHSR¤RMWLH GLMT XLMGORIWW WTIGM¤GEXMSRW  
 1 - J SVHIVMRK YWMRK XLI QQ 8ETI ERH 6IIP TMXGL STXMSR XLI TEGOEKMRK UYERX  
 QIXVMG GEWI WM^I HIZMGIW \*SV QSVI MRJSVQEXMSR VIKEVHMRK QQ TMX

8EFP I & i & YPO 4EGOEKMRK 5YERXMXMIW

4EGOEKMRK 8]T <sup>1</sup>	0SSWI 4EGOEKMRK & Y <del>B</del> HJEYPX
4EGOEKMRK	N/A <sup>2</sup>
'EWI 7M^I	4EGOEKMRK 5YERXMXMIW TMIGIW YRMX TEGO
EIA (in)	Metric (mm)
0402	1005
0603	1608
0805	2012
1206	3216
1210	3225
1808	4520
1812	4532
1825	4564
2220	5650
2225	5664

<sup>1</sup> 8LI 4EGOEKMRK '7TIG MW E XS HMKMX GSHI [LMGL MHIRXM~~I~~W XLI TEGOEKMRK MRGPYHIH MR XLI XL XLVSYKL RH GLEVEGXIV TSWMXMSRW SJ XLI SVHIVMRK GSH 'SQQIVGMEP +VEHI TVSHYGX SVHIVIH [MXLSYX E TEGOEKMRK '7TIG [MPP HIJEYPX X bag packaging option for Automotive Grade products.

<sup>2</sup> % TEGOEKMRK '7TIG WII RSXI EFE 2 GOEE €

8EFPI i 'LMT 'ETEGMXSV 0ERH 4EXXIVR (IWMKR 6IGSQ

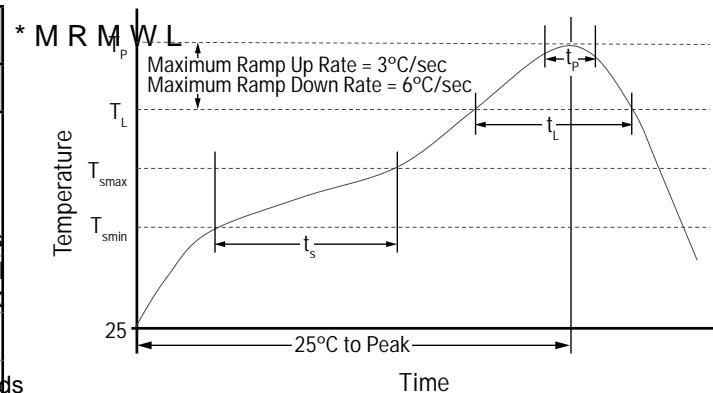
## 7SPHIVMRK 4VSGIWW

6IGSQQIRHIH 7SPHIVMRK 8IGLRLMUYI  
URSHVW S U %G W WMM E R  
%RS X W %G W WMM MPQM XISW S PV S SR P

6IGSQQIRHIH 6IYS[ 7SPHIVMRK 4VSPI

1) 1) 8 M EVQ MSPWY W QESG K XW PVE G M1X(SO VWE VG S Q T E X M K E Z I W M B W P E P  
G S R Z I G 6 N S RTSLVE WI Y SX I G L R M U YU WE S J M R K S Q T S R M V G Q Q I R H S M H X V I Q L I V Q E P  
W X V I W Y W M I G S Q Q I R V S I G L R M U Y U W E S J M R K S Q T S R M V G Q Q I R H S M H X V I Q L I V Q E P  
. 78 ( W X E R J S Q S M W W X I R W M X M I B M R M I Z M G E W E J I N P X L W E Q E R M Q S Y Q L W I Y S T E W W I W  
E X L I W S R H M X M S R W

4VSPI * IEXYYVI	8IVQMR EXMSR	
	SnPb	1EX XIR
4VILIE X 7SE		
8IQTIVE XYVI 1M 8IQTIVE1XYM IQ YQ	q' q'	q' q'
Time (t) from $T_{smin}$ to $T_{smax}$	60 – 120 seconds	60 – 120 seconds
Ramp-Up Rate <sub>L</sub> (t <sub>b</sub> T <sub>p</sub> )	q' WIGS QE\MQYQ	q' WIGS QE\MQYQ
0MUYM HOSTM WE X Y VI	q'	q'
8M Q6S Z0WY MH Y	60 – 150 seconds	60 – 150 seconds
4IEQITIVE XYVI	q'	q'
8M QNK L MRS J E M Q Y Q	20 seconds	30 seconds
4IE8IQTIVE XYVI	QE\MQYQ	QE\MQYQ
Ramp-Down Rate <sub>P</sub> (t <sub>b</sub> T <sub>L</sub> )	q' WIGSF QE\MQYQ	q' WIGSF QE\MQYQ
8M QIq'X SIE O 8IQTIVE XYVI	Q RMY XIW QE\MQYQ	Q RMY XIW QE\MQYQ



2SXI %PP XIQTIVE XYVIW VIJIV XS XLI GIRXIV SJ XLI TEGOEKI QIEWYVIH SR XLI  
GETEGMXSV FSH] WYVJEGI XLEX MW JEGMRK YT HYVMRK EWWIQFP] VIYS[

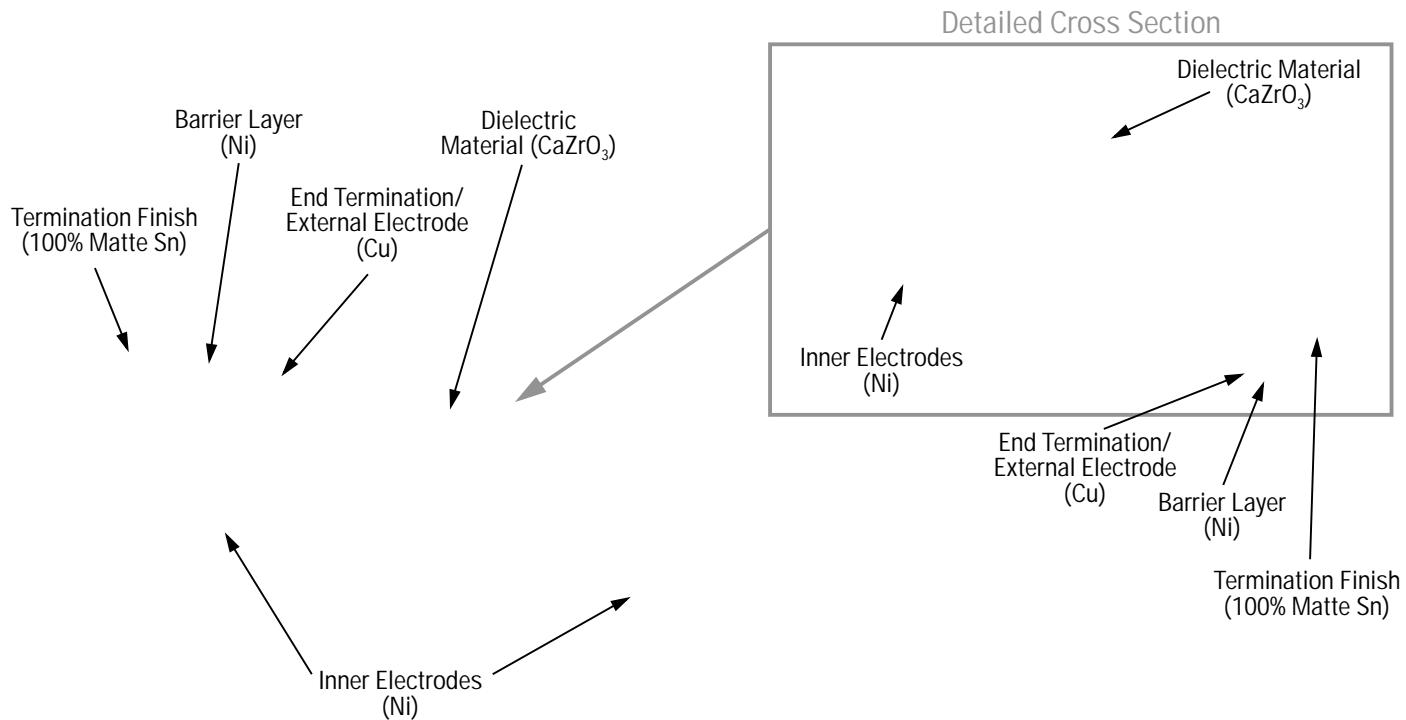
8EFP I i 4IVJSVQERGI 6IPM EFMPMX] 8IWX 1IXLSHW E

7XVIWW	6IJIVIRGI	8IWX SV -RWTIGXMSR 1IXLSH
8IVQMREPRKXL JIS-C-6429		%TTIRHM\ 2XI 7XERHEVH XIVQMREXMSR W]WX J'SV+ *PI\MRM RVE WNK\$CRQ Q QMRM QYQ
& S E*PH	JIS-C-6429	%TTIRHM\ 2XI 7XERHEVH XIVQMREXMSR W]WX J'SV+ *PI\MRM RVE WNK\$CRQ Q QMRM QYQ
Solderability	J-STD-002	1EKRM G EXSRSHRM XMSRW
		E 1IXL \$HL\$VEX q'HJLEKX q'
		F 1IXL \$BX q'GKIKSV]
		G 1IXL \$KIKS EK q'
		']GPIW — q' XS q' 1IEWYVIQIRX EX LS GSRGPYWMMSR
& MEWIOMHMHM X] 107 8(i 103	1IXLSH	0SEH , YQMHM X] LSYVW q' 6, ERH VEXIH H1IEWYVIQIRX EX LSYVW — LSYVW EJXIV XIWX
		0S[ :SPX , YQMHM X] LSYVW q' 6, ERH H1IEWYVIQIRX EX LSYVW — LSYVW EJXIV XIWX
1SMW61WMMWXERGI 106	1-0i78(i 107	X ! LSYVW G]GPI 7XITW E ERH F RSX VIUYMVI 1IEWYVIQIRX EX LSYVW — LSYVW EJXIV XIWX
8LIVQE BGO	1-0i78(i 107	— q' 2XI 2YQFIV SJ G]GPIW VIUYMVIH i WIGSRHW H[IPP XMQII i QMRYXIW %MV i %MV
, MK8ILQTIV EOKM JV I /EIA-198	1-0i78(i 108	LSYE/XW q' qJS<V 6> 9ERH : [MXLVE XZISH XEETKIP M I H
7XSE KJM	1-0i78(i 108	q' :(' JSV LSYVW
:ME XMSR	1-0i78(i 204	H K W JSV QMRYXIW G]GPIW IEGL SJ SVMIRX WIGT\$MSR\$RPSR/KERHWIGT\$MSR\$SWRSISTWSWM 8IWX QSYRXIH [MXLMR JVSQ ER] WIGYVI TSMRX 8IWX
1IGLERM GEP	1-0i78(i 213	*MKYSJIXLSH'SRH M XMSR
Resistance to Solvents	1-0i78(i 215	%HEHUYI\$BYWGLI QMBG)EIPP IESRV U YMZEPIRX

7XSVEKI ERH ,ERHPMRK

'IVE QGMQIE T E GMWLXSFWMK SWRS V QSEVOINRZIM V S R QMREXOM MKEWQ W EPVQINWMS F MWX  
SXU RZM VS RQIRXW

' S R W X V Y G X M S R



' E T E G M X S V 1 E V O M R K 3 T X M S R E P

0 E W Q I V Q S M T R M R S E Z E M S I F P I

u ' + 9 R V F R 6 E R = : H M I G X V M G I W

• EIA 0402 case size devices

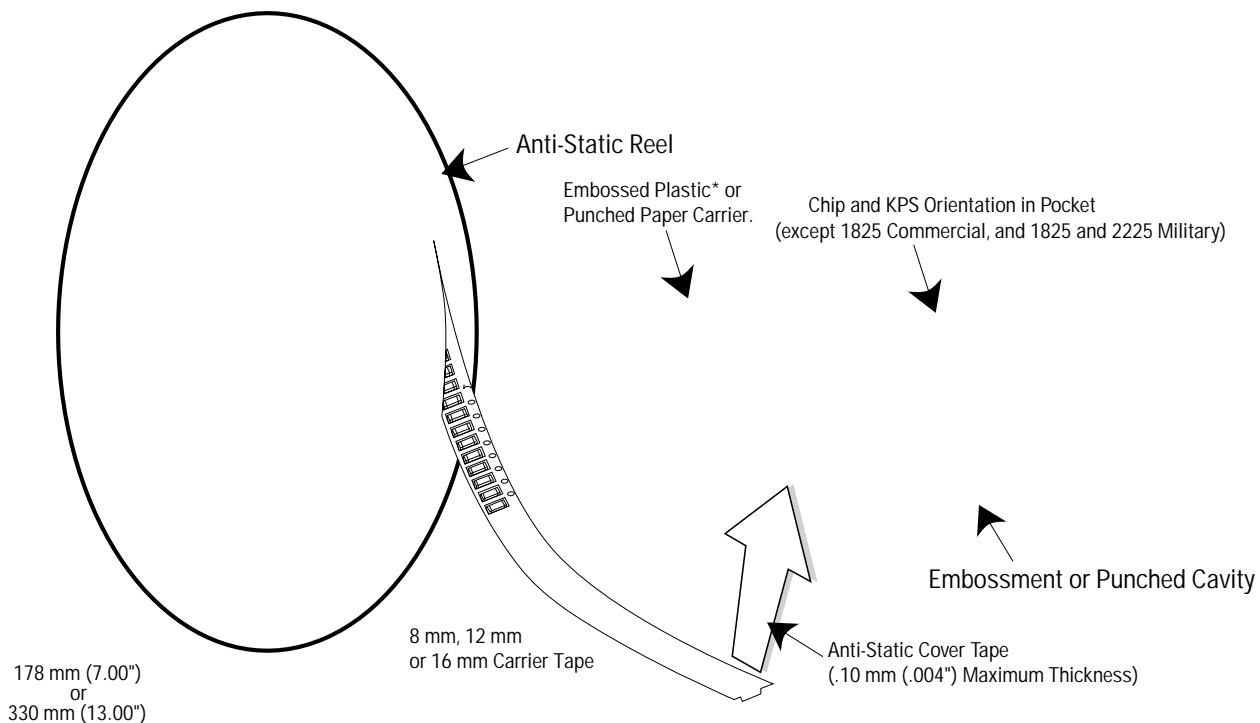
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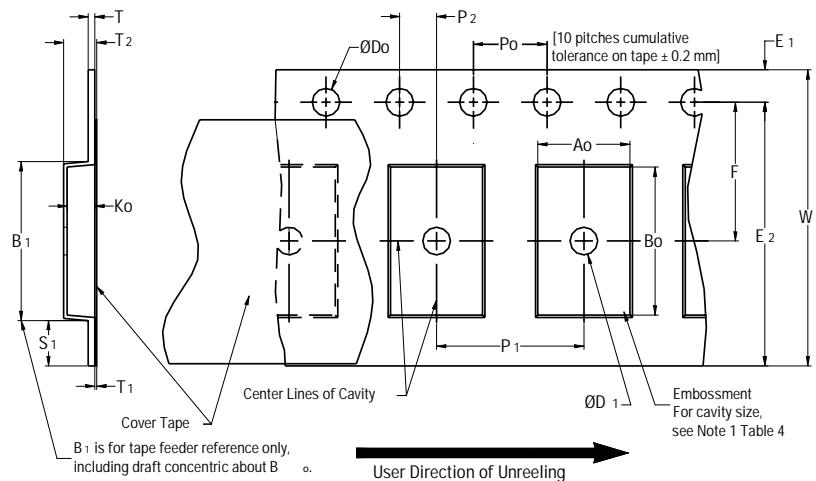
8 L I V G I E T E G E M W W S V T V M P R M Q B V S Q I F I

8ETI 6IIP 4EGOEKMRK -RJSVQEXMSR

/)1)8 SJJIVW QYPXMPE]IV GIVEQMG GLMT GETEGMXSVW TEGOEKIH MR  
)-% 7XERHEVH 8LMW TEGOEKMRK W]WXIQ MW GSQTEXMFPI [MXL EF  
HIXEMPW SR VIIPMRK UYERXMXMIW JSV GSQQIVGMEP GLMTW



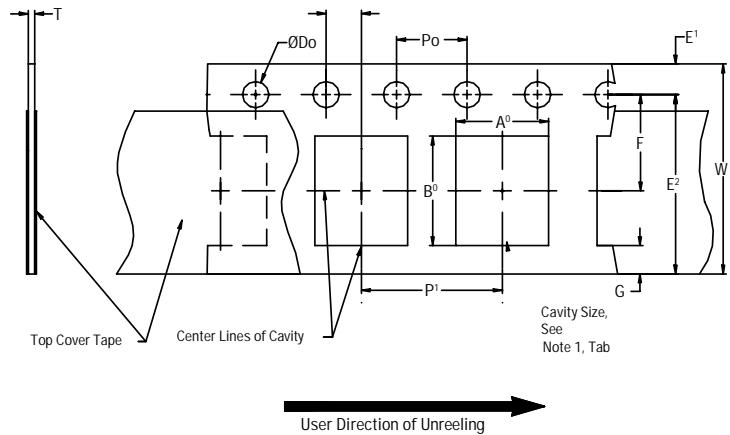
\* MKYVI i ) QFSWWIH 4PEWXMG 'EVVMIV 8ETI (MQIRWM



8EFPI i ) QFSWWIH 4PEWXMG 'EVVMIV 8ETI (MQIRWMS  
1IXVMG [MPP KSZIVR

'SRWXERX (MQIRWMSRW j 1MPPMQIXIVW -RG LIW									
Tape Size	D <sub>0</sub>	D <sub>1</sub> 1 M R M Note 1	E <sub>1</sub>	P <sub>0</sub>	P <sub>2</sub>	R Reference Note 2	S <sub>1</sub> 1 M R M Note 3	T 1 E \ M Q	T <sub>1</sub> 1 E \ M Q

\* M K Y V I    i 4 Y R G L I H    4 E T I V    ' E V V M I V    8 E T I    ( M Q I R W M S R W



4 E G O E K M R K - R J S V Q E X M S R 4 I V J S V Q E R G I 2 S X I W

'S Z I V 8 E T I & V I E O \* S V G I / K Q M R M Q Y Q

'S Z I V 8 E T I 4 I I B L T X M S R K X L T I I P W X V I R K X L S J X L I G S Z I V X E T I J V S Q X L I

8 E T I ; M H X L	4 I I P 7 X V I R K X L
8 mm	X S 2 I [ X S R X S K J
12 and 16 mm	X S 2 I [ X S R X S K J

8 L I H M V I G X M S R S J X L I T Y P P W L E P P F I S T T S W M X I X L I H M V I G X M S R S J X  
q X S q J V S Q X L I T P E R I S J X L I G E V V M I V X E T I ( Y V M R K T I I P M R K X L  
r Q Q Q M R Y X I  
0 E F I P M R K & E V G S H I P E F I P M R K W X E R H E V H S V G Y W X S Q W L E P P F I S  
7 X E R H E V H W E R H .

\* M K Y V I i 1 E \ M Q Y Q ' S Q T S R I R X 6 S X E X M S R

\* M K Y VI    i 6 I I P ( M Q I R W M S R W



/)1)8 )PIGXVSRMG 'SVTSVEXMSR 7EPIW 3J¤ GIW  
\*SV E GSQTPIXI PMWX SJ SYV KPSFEP WEPIW SJ¤ GIW TPIEWI ZMWWMX

(MWGPEMQIV

%PP TVSHYGX WTIGM¤ GEXMSRW WXEXIQIRXW MRJSVQEXMSR ERH HEXE GSPIGXZIP] XLI p  
GLIGOMRK ERH ZIVMJ]MRK XLI I\XIRX XS [LMGL XLI -RJSVQEXMSR GS RXEMRIH MR XLMW TYFPM  
%PP -RJSVQEXMSR KMZIR LIVIMR MW FIPMIZIH XS FI EGYYVEXI ERH VIPMEFPI FYX MX MW TVI  
7XEXIQIRXW SJ WYMXEFPMPMX] JSV GIVXEMR ETTPMGEXMSRW EVI FEWIH SR /)1)8 )PIGXVSRMGW  
ETTPMGELEXMSRW FYX EVI RSX MRXIRHIH XS GSRWXMXYXI i ERH /)1)8 WTIGM¤ GEPP] HMWGPEMC  
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 [MLX  
SFPMKEXMSR SV PMEFMPMX] JSV XLI EHZMGI KMZIR SV VIWYPXW SFXEMRIH  
%PXLSYKL /)1)8 HIWMKRW ERH QERYJEGXYVIW MXW TVSHYGXW XS XLI QSWX WXVMRKIRX UYEPI  
JEMPYVIW QE] WXMPP SGGYV %GGSVHMRKP] GYWXSQIV ETTPMGEXMSRW [LMGL VIUYMVI E LM  
WYGL EW MRWXEPPEXMSR SJ TVSXIGXMZI GMVGYMXV] SV VIHYRHERGMIW MR SVHIV XS IRWYV  
TVSTIVX] HEQEKI  
%PXLSYKL EPP TVSHYGXIVIPEXIH [EVRMRKW GEYXMSRW ERH RSXIW QYWX FI SFWIVZIH XLI GY  
QIEWYVIW QE] RSX FI VIUYMVIH