

Overview

KEMET's Goldmax conformally coated radial leaded ceramic capacitors in Z5U dielectric feature an 85°C maximum operating temperature and are considered

& I R I X W

- Radial leaded technology
- Conformally coated
- 0.100", 0.200", 0.250" and 0.400" lead spacing
- +10°C to +85°C operating temperature range
- Lead (Pb)-free, RoHS and REACH compliant
- DC voltage ratings of 25 V, 50 V, 100 V, 200 V, and 250 V

4EGOEKMRK ' 7TIG 3VHIVMRK 3TXMSRW 8EFPI

u'ETEGMXERGI SJJIVMRKW VERKMRK JVSQ T* XS q*
 u%ZMPEFPI GETEGMXERGI 8SPIVERGIW SJ r ERH —

- Non-polar device, minimizing installation concerns

u TYVI QEXXI XMR TPEXIH PIEH RMWL EPPS[MRK JSV I\GIPPIRX WS
 u7RF TPEXIH PIEH RMWL STXMSR EZEMPEFPI YTSR VIUYIWX 7R 4F
 u)GETWYPEXMSR QIIXW EQEFMPMX] WXERHEVH 90 :i

5YEPM GEXMSR

Typical applications include limited temperature, decoupling and bypass.

5YEPM GEXMSR 2SXIW

These devices are not recommended for use in overmold applications and/or processes.

4EGOEKMRK ' 7TIG 3VHIVMRK 3TXMSRW 8EFPI

4EGOEKMRK 8]TI 4EGOEKMRK +VEHI 3VHIVMRK 'SHI ' 7TIG	
Bulk Bag	2SX VIUYMVIH &PERO
12" Tape & Reel (16.0±0.5 mm lead length)	7301
12" Tape & Reel (18.0 mm minimum lead length)	7303
Ammo Pack (16.0±0.5 mm lead length)	7305
Ammo Pack (18.0 mm minimum lead length)	7317

¹ (IJE TEGOEKMRK ' 7TIG 3VHIVMRK 3TXMSRW 8EFPI *SQS WIRJSV WEIX MGBE KMRKXMIW
¹ 8EIRH IFE GOE SKT MBSZ EMPZ MPPI 7X]EIR'H *SQS WIRJSV WEIX MGBE KMRKXMIW
¹ %Q QSGTEGOE SKT MBSZ EMPZ MPPI 7X]PI ' ERH *SQS WIRJSV WEIX MGBE KMRKXMIW
¹ %Q QSGOR 8EIRH IFE GOE SKT MBSZ EMPZ MPPI 7X]PI ' ERH *SQS WIRJSV WEIX MGBE KMRKXMIW
 Information".

5YEPM GEXMSR 'IVXM GEXMSR

'SQQIVGMEP +VEHI TVSHYGXW EVI WYFNIGX XS MRXIVREP UYEPM GEXMSR
 referenced in Table 2, Performance & Reliability.

)RZMVSRQIRXEP 'SQTPMERGI

0IEH 4F JVII 6)' , ERH 6S,7 GSQTPMERX [MXLSYX \IQTXMSRW [LIR S
 4VSHYGX SVHIVIH [MXL XMR PIEH 7R 4F [MVI PIEH RMWL HS RSX

7IVMIW	8IVQMR *MRM ;MVI 0	EXMSR RoHS SQTPM	RoHS)\IQTXMSR SHI	6)' , SQTPMER	Halogen Free
300 (C3XX)	100% Matte Sn	Yes	n/a	Yes	Yes
	Sn60/Pb40	No	n/a	Yes	Yes

' 6)' 'GSQTPMERX [MXLSYX \IQTXMSRW [LIR S

)PIGXVMGEP 4EVEQIXIVW 'LEVEGXIVMWXMGW

- XIQ	4EVEQIXIVW 'LEVEGXIVMWXMGW
Operating Temperature Range	— q' X S q'
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	—
Aging Rate (Maximum % Cap Loss/Decade Hour)	0%
Dielectric Withstanding Voltage	250% of rated voltage (5±1 second and charge/discharge not exceeding 50 mA at 25°C)
Dissipation Factor (DF) Maximum Limit at 25°C	See Dissipation Factor Limit Table
Insulation Resistance (IR) Limit at 25°C	QIKSLQ QMGVSJEVEHW SV +1 (Rated voltage applied for 120±5 seconds at 25°C)

6IKEV [MVI 0IEH 4F JVII 6)' , ERH 6S,7 GSQTPMERX [MXLSYX \IQTXMSRW [LIR S

4 S W X) R Z M V S R Q I R X E P 0 M Q M X W

, MKL 8 IQTIVEXYVI 0MJI & MEWIH , YQM HMX] ERH 7XSVEKI 0MJ					
Style/Size	Rated DC Voltage	Capacitance Value	Dissipation Factor (Maximum %)	Capacitance Shift	Insulation Resistance
C31X	All	All	5.0	±30%	10% of Initial Limit
C32X, C33X, C34X	25	q *	5.0		
	> 25	q *	5.0		
	25 / 50	ž q *	20.0		
C35X	All	All	5.0		

(M W W M T E X M S R * E G X S V (* 0 M Q M X 8 E F P I

7 X] P I 7 M ^ I	6 E X I H (' : S P X E K I	6 E X I H ' E T E G M X E R G 1 E \ M Q Y Q	(M W W M T E X M S R * E G X S V
C31X	All	All	4.0
C32X, C33X, C34X	25	q *	4.0
	> 25	q *	4.0
	25 / 50	ž q *	10.0
C35X	All	All	4.0

8EFPI % i ' < 7X]PI 7M^I 'ETEGMXERGI 6ERKI ;EXIVJEM

		7X]PI 7M^I			ERH	01EH 7TEGMF
6EXIH :SPXEKI :('			50	100		
:SPXEKI 'SHI		3	5	1		A
'ETEGMXERGI	'ETEGMXERGI Tolerance	'ETEGMXERGI 'SHI			%ZEMPEFPI	'ETEGM
100pF	M = ±20% Z = +80%/-20%	101	101	101	101	101
120pF		121	121	121	121	121
150pF		151	151	151	151	151
180pF		181	181	181	181	181
220pF		221	221	221	221	221
270pF		271	271	271	271	271
330pF		331	331	331	331	331
390pF		391	391	391	391	391
470pF		471	471	471	471	471
560pF		561	561	561	561	561
680pF		681	681	681	681	681
820pF		821	821	821	821	821
1000pF		102	102	102	102	102
1200pF		122	122	122	122	122
1500pF		152	152	152	152	152
1800pF		182	182	182	182	182
2200pF		222	222	222	222	222
2700pF		272	272	272	272	272
3300pF		332	332	332	332	332
3900pF		392	392	392	392	392
4700pF		472	472	472	472	472
5600pF		562	562	562	562	562
6800pF		682	682	682	682	682
8200pF		822	822	822	822	822
0.01µF		103	103	103	103	103
0.012µF		123	123	123	123	123
0.015µF		153	153	153	153	153
0.018µF		183	183	183	183	183
0.022µF		223	223	223	223	223
0.027µF		273	273	273	273	273
0.033µF		333	333	333	333	333
0.039µF		393	393	393	393	393
0.047µF		473	473	473	473	473
0.056µF		563	563	563	563	563
0.068µF		683	683	683		
0.082µF		823	823	823		
0.1µF		104	104	104		
0.12µF		124	124	124		
0.15µF		154	154	154		
0.18µF		184	184	184		
0.22µF		224	224	224		
0.27µF		274	274			
0.33µF		334	334			
0.39µF		394	394			
0.47µF		474	474			
0.56µF	564	564				
0.68µF	684	684				
0.82µF	824					
1.0µF	105					
6EXIH :SPXEKI :('			50	100		
:SPXEKI 'SHI		3	5	1		A

8EFPI & i' < 7X]PI 7M^I 'ETEGMXERGI 6ERKI ;EXIVJEP

		7X]PI 7M^I		ERH		0IEH 7TEC	
6EXIH :SPXEKI :('			50	100			
:SPXEKI 'SHI		3	5	1			A
'ETEGMXERGI	'ETEGMXERGI Tolerance	'ETEGMXERGI 'SHI		%ZEMPEFPI	'ETEGMXERGI		
100pF	M = ±20% Z = +80%/-20%	101	101	101	101	101	
120pF		121	121	121	121	121	
150pF		151	151	151	151	151	
180pF		181	181	181	181	181	
220pF		221	221	221	221	221	
270pF		271	271	271	271	271	
330pF		331	331	331	331	331	
390pF		391	391	391	391	391	
470pF		471	471	471	471	471	
560pF		561	561	561	561	561	
680pF		681	681	681	681	681	
820pF		821	821	821	821	821	
1000pF		102	102	102	102	102	
1200pF		122	122	122	122	122	
1500pF		152	152	152	152	152	
1800pF		182	182	182	182	182	
2200pF		222	222	222	222	222	
2700pF		272	272	272	272	272	
3300pF		332	332	332	332	332	
3900pF		392	392	392	392	392	
4700pF		472	472	472	472	472	
5600pF		562	562	562	562	562	
6800pF		682	682	682	682	682	
8200pF		822	822	822	822	822	
0.01µF		103	103	103	103	103	
0.012µF		123	123	123	123	123	
0.015µF		153	153	153	153	153	
0.018µF		183	183	183	183	183	
0.022µF		223	223	223	223	223	
0.027µF		273	273	273	273	273	
0.033µF		333	333	333	333	333	
0.039µF		393	393	393	393	393	
0.047µF		473	473	473	473	473	
0.056µF		563	563	563	563	563	
0.068µF		683	683	683	683	683	
0.082µF		823	823	823	823	823	
0.1µF		104	104	104	104	104	
0.12µF		124	124	124	124	124	
0.15µF		154	154	154	154	154	
0.18µF		184	184	184	184	184	
0.22µF	224	224	224				
0.27µF	274	274	274				
0.33µF	334	334	334				
0.39µF	394	394	394				
0.47µF	474	474	474				
0.56µF	564	564					
0.68µF	684	684					
0.82µF	824	824					
1.0µF	105	105					
1.2µF	125	125					
1.5µF	155	155					
1.8µF	185	185					
2.2µF	225	225					
6EXIH :SPXEKI :('			50	100			
:SPXEKI 'SHI		3	5	1		A	

1 8 L M G Q R E I W N Q 8 ! Q Q Q J S G / E T E G M X E R G I M E X L I B R U Y X S v *

8EFPI & i ' < 7X]PI 7M^I 'ETEGMXERGI 6ERKI ;EXIVJEP

8EFPI ' i ' < 7X]PI 7M^I 'ETEGMXERGI 6ERKI ;EXIVJEP

		7X]PI 7M^I			ERH	OIEH 7TE
6EXIH :SPXEKI :('			50	100		
:SPXEKI 'SHI		3	5	1		A
'ETEGMXERGI	'ETEGMXERGI Tolerance	'ETEGMXERGI 'SHI		%ZEMPEFPI	'ETEGM	
0.022µF	M = ±20% Z = +80%/-20%	223	223	223	223	223
0.027µF		273	273	273	273	273
0.033µF		333	333	333	333	333
0.039µF		393	393	393	393	393
0.047µF		473	473	473	473	473
0.056µF		563	563	563	563	563
0.068µF		683	683	683	683	683
0.082µF		823	823	823	823	823
0.1µF		104	104	104	104	104
0.12µF		124	124	124	124	124
0.15µF		154	154	154	154	154
0.18µF		184	184	184		
0.22µF		224	224	224		
0.27µF		274	274	274		
0.33µF		334	334	334		
0.39µF		394	394	394		
0.47µF		474	474	474		
0.56µF		564	564			
0.68µF		684	684			
0.82µF		824	824			
1.0µF		105	105			
1.2µF		125	125			
1.5µF		155	155			
1.8µF		185	185			
2.2µF		225	225			
2.7µF		275	275			
3.3µF		335	335			
3.9µF		395	395			
4.7µF		475 ¹	475 ¹			
5.6µF		565 ¹				
6.8µF	685 ¹					
10µF	106 ¹					

1 8 L M G Q R E I W V Q 8 I Q Q Q J S G / E T E G M X E R G I M E X L U B R U Y X S v *

8EFPI (i ' < 7X]PI 7M^I 'ETEGMXERGI 6ERKI ;EXIVJEP

		7X]PI 7M^I			ERH	0IEH	7TEC
6EXIH :SPXEKI :('			50	100			
:SPXEKI 'SHI		3	5	1		A	
'ETEGMXERGI	'ETEGMXERGI Tolerance	'ETEGMXERGI 'SHI			%ZEMPEFPI	'ETEGMXERGI	
4700pF	M = ±20% Z = +80%/-20%	472*	472*	472*	472*	472*	
5600pF		562*	562*	562*	562*	562*	
6800pF		682*	682*	682*	682*	682*	
8200pF		822*	822*	822*	822*	822*	
0.01µF		103*	103*	103*	103*	103*	
0.012µF		123*	123*	123*	123*	123*	
0.015µF		153*	153*	153*	153*	153*	
0.018µF		183*	183*	183*	183*	183*	
0.022µF		223*	223*	223*	223*	223*	
0.027µF		273*	273*	273*	273*	273*	
0.033µF		333*	333*	333*	333*	333*	
0.039µF		393*	393*	393*	393*	393*	
0.047µF		473*	473*	473*	473*	473*	
0.056µF		563*	563*	563*	563*	563*	
0.068µF		683*	683*	683*	683*	683*	
0.082µF		823*	823*	823*	823*	823*	
0.1µF		104*	104*	104*	104*	104*	
0.12µF		124*	124*	124*	124*	124*	
0.15µF		154*	154*	154*	154*	154*	
0.18µF		184*	184*	184*	184	184	
0.22µF		224*	224*	224*	224	224	
0.27µF		274*	274*	274*	274	274	
0.33µF		334*	334*	334*	334	334	
0.39µF		394*	394*	394*	394	394	
0.47µF		474*	474*	474*	474	474	
0.56µF	564*	564*	564*	564	564		
0.68µF	684*	684*	684*	684	684		
0.82µF	824*	824*	824*	824	824		
1.0µF	105*	105*	105*	105	105		
1.2µF	125*	125*	125	125	125		
1.5µF	155*	155*					
1.8µF	185*	185*					
2.2µF	225*	225*					
6EXIH :SPXEKI :('			50	100			
:SPXEKI 'SHI		3	5	1		A	

'E E T E G M X E R G I S T V T R I M E L F L S Y P H I R I E H R R K Y W T E X J M S R M E I R H

8EFPI) i ' < 7X]PI 7M^I 'ETEGMXERGI 6ERKI ;EXIVJEP

		7X]PI 7M^I			0IEH 7TEGMRK	
6EXIH :SPXEKI :('			50	100		
:SPXEKI 'SHI		3	5	1		A
'ETEGMXERGI	'ETEGMXERGI Tolerance	'ETEGMXERGI 'SHI %ZEMPEFPI 'ETEGMXERGI				
0.068µF	M = ±20% Z = +80%/-20%	683*	683*	683*	683*	683*
0.082µF		823*	823*	823*	823*	823*
0.1µF		104*	104*	104*	104*	104*
0.12µF		124*	124*	124*	124*	124*
0.15µF		154*	154*	154*	154*	154*
0.18µF		184*	184*	184*	184	184
0.22µF		224*	224*	224*	224	224
0.27µF		274*	274*	274*	274	274
0.33µF		334*	334*	334*	334	334
0.39µF		394*	394*	394*	394	394
0.47µF		474*	474*	474*	474	474
0.56µF		564*	564*	564*	564	564
0.68µF		684*	684*	684*	684	684
0.82µF		824*	824*	824*	824	824
1.0µF		105*	105*	105*	105	105
1.2µF		125*	125*	125	125	125
1.5µF		155*	155*	155		
1.8µF		185*	185*	185		
2.2µF		225*	225*	225		
2.7µF		275	275			
3.3µF	335	335				
3.9µF	395	395				
4.7µF	475	475				
5.6µF	565	565				
6.8µF	685	685				
8.2µF	825	825				
10µF	106	106				
6EXIH :SPXEKI :('			50	100		
:SPXEKI 'SHI		3	5	1		A

7X]PI '7M^I WY T T P R 7 H S Y P H I P I E H R K Y V S E M S R M R S S E E E W I M S R R I O I E S R K Y V E X M S R W

8EFPI * i ' < 7X]PI 7M^I 'ETEGMXERGI 6ERKI ;EXIVJEP

		7X]PI 7M^I			0IEH 7TEGMRK	
6EXIH :SPXEKI :('			50	100		
:SPXEKI 'SHI		3	5	1		A
'ETEGMXERGI	'ETEGMXERGI Tolerance	'ETEGMXERGI 'SHI %ZEMPEFPI 'ETEGM				
0.18µF	M = ±20% Z = +80%/-20%	184	184	184	184	184
0.22µF		224	224	224	224	224
0.27µF		274	274	274	274	274
0.33µF		334	334	334	334	334
0.39µF		394	394	394	394	394
0.47µF		474	474	474	474	474
0.56µF		564	564	564	564	564
0.68µF		684	684	684	684	684
0.82µF		824	824	824	824	824
1.0µF		105	105	105	105	105
1.2µF		125	125	125	125	125
1.5µF		155	155			
1.8µF		185	185			
2.2µF		225	225			
2.7µF		275	275			
3.3µF		335	335			
3.9µF		395	395			
4.7µF		475	475			
5.6µF		565	565			
6.8µF		685	685			
8.2µF	825	825				
10µF	106	106				
6EXIH :SPXEKI :('			50	100		
:SPXEKI 'SHI		3	5	1		A

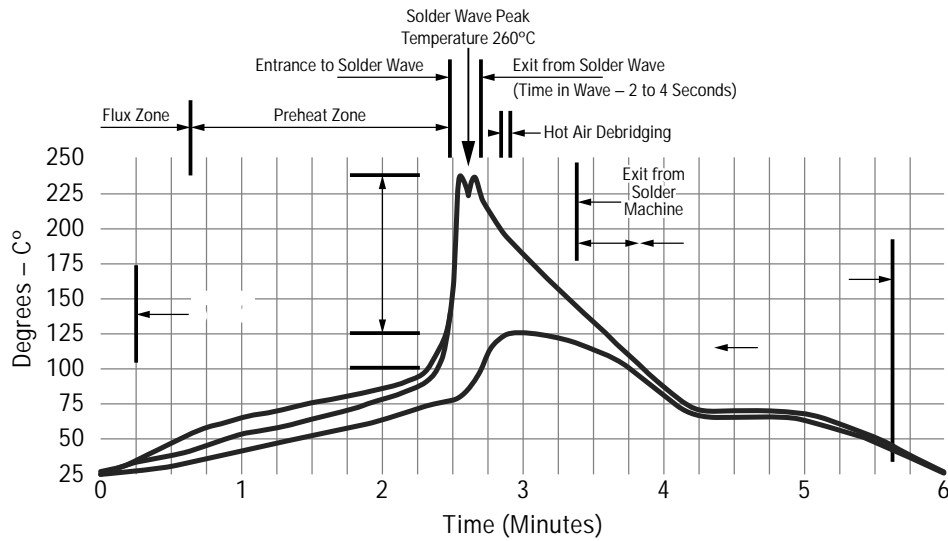
7SPHIVMRK 4VSGIWW

6IGSQQIRHIH 7SPHIVMRK 1IXLSHW

- Solder Wave
- Hard Soldering (Manual)

6IGSQQIRHIH 7SPHIVMRK 4VSPI

u3TKMQYQ ;EZI 7SPHIV 4VSPI



8EFPI i 4IVJSVQERGI 6IPMEFMPMX] 8IWX 1IXLSHW E

7XVIWW	6IJIVIRGI	8IWX SV -RWTIGXMSR 1IXLSH
Solderability	.i78(i	1EKRM GEXMSR < 'SRHMXMSRW a) Method A, at 235°C, Category 3
Temperature Cycling	.)7(1IXLSH	.%i G]GPIW — q' XS q' QIEWYVIQIRX EX LSYV
Biased Humidity	1-0i78(i 103	1IXLSH WYVIQIRX EX LSYVW — LSYVW EJXIV XIWX
		Low volt humidity, 1,000 hours 85°C/85%RH and 1.5 V. Add 100 K ohm resistor. 1IEWYVIQIRX EX LSYVW — LSYVW EJXIV XIWX
Moisture Resistance	1-0i78(i 106	1IX X ! LSYVW G]GPI 7XITW E ERH F RSX VIUYMVI — LSYVW EJXIV XIWX GSRGPYWMSR
Thermal Shock	1-0i78(i 107	1IX — {' XS q' 2SXI 2YQFIV SJ G]GPIW VIUYMVIH WIGSRHW ([IPP XMQI i QMRYXIW %MV i %MV
High Temperature Life	1-0i78(i)-%i	1IX 1,000 hours at 125°C (85°C for Z5U) with 1 X rated voltage applied.
Storage Life	1-0i78(i 108	1IX 125°C, 0 VDC for 1,000 hours.
Vibration	1-0i78(i 204	1IX LSK JSV QMRYXIW G]GPIW IEGL SJ SVMIRXEX secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz.
Resistance to Soldering Heat	1-0i78(i 210	1IX 'SRHMXMSR & 2S TVILIEX SJ WEQTPIW 2SXI WMRKPI [
Terminal Strength	1-0i78(i 211	1IX Conditions A (454g), Condition C (227g)
Mechanical Shock	1-0i78(i 213	1IX Figure 1 of Method 213, Condition C.
Resistance to Solvents	1-0i78(i 215	1IX %HH EUYISYW [EWL GLIQMGEP i 3/)1 'PIER SV IUYMZEPI

7XSVEKI , ERHPMRK

The un-mounted storage life of a leaded ceramic capacitor is dependent upon storage and atmospheric conditions as [IPP EW TEGOEKMRK QEXIVMEPW ;LMPI XLI GIVEQMG GLMTW IRZIPSTI MR QSWX IRZMVSQRIRXW WSPHIVEFMPMX] SJ XLI [MVI PIEH SR XLI R high temperatures, high humidity, corrosive atmospheres, and long term storage. In addition, packaging materials will be HIKVEHIH F] LMKL XIQTIVEXYVI ERH I\TSWYVI XS HMVIGX WYRPMKLX i

KEMET recommends storing the un-mounted capacitors in their original packaging, in a location away from direct sunlight and where the temperature and relative humidity do not exceed 40 degrees centigrade and 70% respectively. For optimal WSPHIVEFMPMX] GETEGMXSV WXSGO WLSYPH FI YWIH TVSQTXP] TVIJ TVI XMRRMRK SJ GSQTSRIRXW WXSVEKI PMJI QE] FI I\XIRHIH MJ WSPH HIZMGIW MX MW MQTSVXERX XS ZIVMJ] XLEX]SYV TVSGIWW HSIW RS] XIWXMURK ERH IZEPYEXMRK XLI TIVJSVQERGI SJ E GPIERIH FSRHIH SV of these processes.

Radial Leaded Multilayer Ceramic Capacitors

Goldmax, 300 Series, Conformally Coated, Z5U Dielectric, 25 – 250 VDC (Commercial Grade)



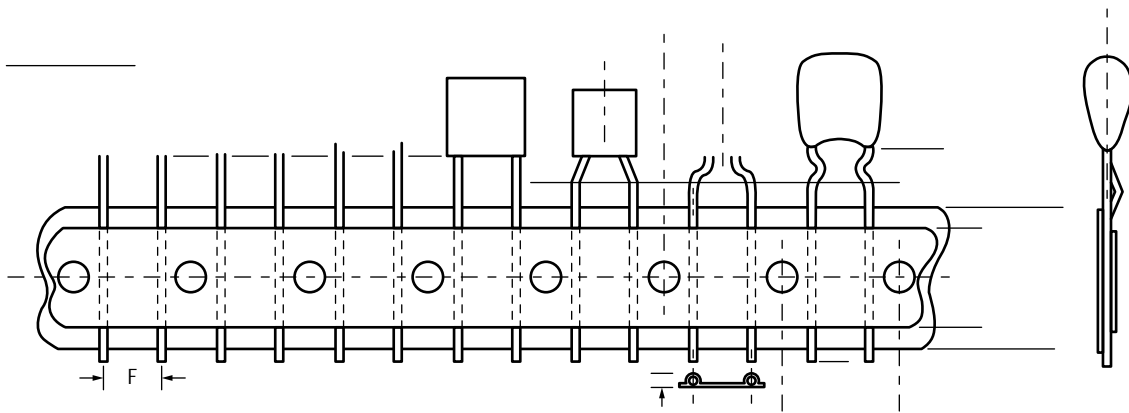
' S R W X V Y G X M S R

4 E G O E K M R K 5 Y E R X M X M I W

7 X J P I 7 X E R H E V H & Y P O Size	5 Y E R X M X J Ammo Pack & Y P O Maximum	6 I I P 5 Y E Maximum	6 I I P
315	500/Bag	2500	2500
316			
317			
318			
320			
321		N/A	N/A
322		2500	2500
323			
324			
325			
326			
327	250/Bag	1500	1500
328			
330		N/A	N/A
331		1500	1500
333			
335			
336	100/Bag	1000	1000
340			
346	50/Bag	N/A	500
350			
356			

Radial Leaded Multilayer Ceramic Capacitors

Goldmax, 300 Series, Conformally Coated, Z5U Dielectric, 25 – 250 VDC (Commercial Grade)



'IVEQMG 6EHMEP 8ETI ERH 6IIP (MQIRWMSRW GSRX H
 Metric will govern

:EVMEFPI (MQIRWMSRW j 1MPPMQIXIVW -RGLIW							
F ±0.78 (0.030)	P ₁ ±0.30 (0.012)	P ±0.3 (0.012)	P ₂ ±1.3 (0.51)	H		H ₀	
				7XVEMKLX 0IEH 'SR▫ KYVEXMSR ² *SVQI			
				Packaging C-Spec			
7301/7305		7303/7317		7301/7305		7303/7317	
2.54 (0.100)	5.08 (0.200)	12.7 (0.500)	6.35 (0.250)	16.0±0.5 (0.630±0.020)	18.0 (0.709) Minimum	16.0±0.5 (0.630±0.020)	18.0 (0.709) Minimum
4.32 (0.170)	3.89 (0.153)	12.7 (0.500)	6.35 (0.250)				
5.08 (0.200)	3.81 (0.150)	12.7 (0.500)	6.35 (0.250)				
5.59 (0.220)	3.25 (0.128)	12.7 (0.500)	6.35 (0.250)				
6.98 (0.275)	2.54 (0.100)	12.7 (0.500)	6.35 (0.250)				
7.62 (0.300)	2.24 (0.088)	12.7 (0.500)	6.35 (0.250)				
9.52 (0.375)	7.62 (0.300)	12.7 (0.500)	6.35 (0.250)				
10.16 (0.400)	7.34 (0.290)	25.4 (1.000)	N/A				
12.06 (0.475)	6.35 (0.250)	25.4 (1.000)	N/A				
14.60 (0.575)	5.08 (0.200)	25.4 (1.000)	N/A				
17.14 (0.675)	3.81 (0.15)	25.4 (1.000)	N/A				

¹ 1IEWYVIH EX XLI IKVIWW JVSQ XLI GEVVMIV XETI SR XLI GSQTSRIRX WMHI

² *SVQIH PIEH GSR▫ KYVEXMSR MRGPYHIW WLSYPHIV FIRH MRWMHI OMRO SYXW
 GSR▫ KYVEXMSRW WII (MQIRWMSRW WIGXMSR SJ XLMW HSGYQIRX

/)1)8)PIGXVSRMG 'SVTSVEXMSR 7EPIW 3J α GIW

*SV E GSQTPIXI PMWX SJ SYV KPSFEP WEPIW SJ α GIW TPIEWI ZMWMX

(MWGP EMQIV

% PP TVSHYGX WTIGM α GEXMSRW WXEXIQIRXW MRJSVQEXMSR ERH HEXE GSPPIGX MZIP] XLI p
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ETTPMGEXMSRW FYX EVI RSX MRXIRHIH XS GSRWXMXYXI i ERH /)1)8 WTIGM α GEPP] HMWGP EMQ
8LI -RJSVQEXMSR MW MRXIRHIH JSV YWI SRP] F] GYWXSQIVW [LS LEZI XLI VIUYMWMXI I\TIVMIR
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obligation or liability for the advice given or results obtained.

% 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
(such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal inju
property damage.

% PXL SYKL EPP TVSHYGXiVIPEXIH [EVRMRKW GEYXMSRW ERH RSXIW QYWX FI SFWIVZIH XLI GY
QIEWYVIW QE] RSX FI VIUYMVIH