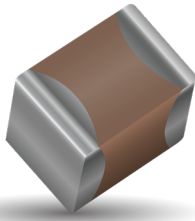


MIL PRF 32535 BME X7R MLCC

Defense Logistics Agency Approved



KYOCERA AVX has been approved by the Defense Logistics Agency (DLA) for its qualification of its Mil Prf 32535 BME X7R MLCC technology. Using its leading edge technology KYOCERA AVX can now offer Mil Prf 32535 approved capacitors from 0402 to 2220 case sizes. With capacitance & voltage ranges ranging from 2.2nF to 22μF, 16–100 volts, currently. KYOCERA AVXs Mil Prf 32535 meets the designer needs by boosting the CV range compared to the standard surface mount Mil Ranges and reduces the gap between commercial and Mil Spec product ranges while meeting the Mil reliability levels. The results of this technology has several key benefits for the Mil design engineer resulting in , ability to downsize case sizes, reducing PCB weight and allowing more efficient use of the PCB area available with the higher CV MLCCs. These surface mount components also incorporate Flexitem® , which greatly enhances resistance to any of the thermo-mechanical stress experienced by MLCCs during PCB assembly and during its life time.

FEATURES

- “M” and “T” reliability levels available.
- Higher CV capability than standard Mil based capacitors resulting in reduced size/weight of components and saving in PCB space required.
- Flexitem® technology used as standard in range for enhanced thermo-mechanical stress resistance.
- Case sizes 0402-2220, cap values 2.2nF–22.0μF available.
- Voltages 16-100 Volts

HOW TO ORDER

M32535	08	E2	Z	226	K	R	M	B
Mil Spec M32535	Slash Sheet Number 02 = 0402 03 = 0603 04 = 0805 05 = 1206 06 = 1210 07 = 1812 08 = 2220	Characteristic E2 (X7R ± 15%)	Voltage Y = 16V Z = 25V A = 50V B = 100V	Capacitance 682 = 6.8nF 103 = 10nF 474 = 470nF 475 = 4.7μF 226 = 22μF	Tolerance J = ±5% K = ±10% M = ±20%	Termination R = Epoxy Ni Sn/Pb	Product Level M = Standard T = Space Level	Electrode B = BME

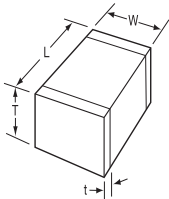
Packaging, Waffle as standard, for Tape and Reel add \1 to end of the part number, e.g. M3253508E2B475KRTB\1

Please note all parts are terminated with a minimum 10% Pb plating

DIMENSIONS

mm (inches)

Size	M3253502		M3253503		M3253504		M3253505		M3253506		M3253507		M3253508	
	0402		0603		0805		1206		1210		1812		2220	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
(L) Length	0.92 (0.036)	1.12 (0.044)	1.45 (0.057)	1.75 (0.069)	1.79 (0.069)	2.26 (0.089)	3.00 (0.118)	3.45 (0.136)	2.94 (0.116)	3.45 (0.136)	4.19 (0.165)	4.80 (0.190)	5.2 (0.208)	6.1 (0.24)
(W) Width	0.41 (0.016)	0.61 (0.024)	0.66 (0.026)	0.97 (0.038)	1.01 (0.040)	1.52 (0.060)	1.35 (0.053)	1.85 (0.073)	2.25 (0.088)	2.74 (0.108)	2.89 (0.114)	3.50 (0.138)	4.59 (0.181)	5.41 (0.213)
(T) Thickness	0.61 (0.24) Max.		0.99 (0.039) Max.		1.52 (0.060)		1.78 (0.070) Max.		2.80 (0.110) Max.		2.80 (0.110) Max.		2.80 (0.110) Max.	
(t) terminal	0.1 (0.004)	0.30 (0.012)	0.20 (0.008)	0.61 (0.024)	0.25 (0.010)	0.75 (0.030)	0.15 (0.006)	0.86 (0.034)	0.15 (0.006)	0.86 (0.034)	0.15 (0.006)	1.1 (0.042)	0.17 (0.007)	1.09 (0.043)



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MIL PRF 32535 X7R APPROVED RANGE

Mil		M3253502			M3253503			M3253504			M3253505			M3253506			M3253507			M3253508		
Case Sizes		0402			0603			0805			1206			1210			1812			2220		
Code	Value	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V
222	2.2 (nF)																					
272	2.7																					
332	3.3																					
392	3.9																					
472	4.7																					
562	5.6																					
682	6.8																					
822	8.2																					
103	10																					
123	12																					
153	15																					
183	18																					
223	22																					
273	27																					
333	33																					
393	39																					
473	47																					
563	56																					
683	68																					
823	82																					
104	100																					
124	120																					
154	150																					
184	180																					
224	220																					
274	270																					
334	330																					
394	390																					
474	470																					
564	560																					
684	680																					
824	820																					
105	1 (µF)																					
125	1.2																					
155	1.5																					
185	1.8																					
225	2.2																					
275	2.7																					
335	3.3																					
395	3.9																					
475	4.7																					
565	5.6																					
685	6.8																					
825	8.2																					
106	10																					
126	12																					
156	15																					
186	18																					
226	22																					