



ES Components

Woman Owned!

A Franchised Distributor

108 Pratts Junction Road
Sterling, MA 01564
P: 978-422-7641
www.escomponents.com
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Space Grade MLCC Ceramic Capacitors

DLA Certified MIL-PRF-123 SMT Capacitors

- **Vishay Vitramon** CAGE CODE SH71
- Reliable **Precious Metal Electrode (PME)** system
- Reliable wet build process
- Available with Tin / Lead or Palladium / Silver terminations
- **Competitive pricing and lead time!**



Table 1: MIL-PRF-123 MLCC's with 12 Week or Less Lead Times

Part Number	Cap Value (pF)	Body Size	Dielectric	Voltage Rating	Tolerance	Slash Sheet
M123A10BPB201KS	200	805	BP	50	K	/10
M123A10BPB221KS	220	805	BP	50	K	/10
M123A10BXB391KS	390	805	BX	50	K	/10
M123A10BXB102KS	1,000	805	BX	50	K	/10
M123A11BPB102JS	1,000	1210	BP	50	J	/11
M123A11BPB102KS	1,000	1210	BP	50	K	/11
M123A10BXB103KS	10,000	805	BX	50	K	/10
M123A11BXB103KS	10,000	1210	BX	50	K	/11
M123A11BXB473KS	47,000	1210	BX	50	K	/11
M123A11BXB104KS	100,000	1210	BX	50	K	/11
M123A12BXB104KS	100,000	1808	BX	50	K	/12
M123A21BXC103KS	10,000	1206	BX	100	K	/21
M123A11BXC123KS	12,000	1210	BX	100	K	/11
M123A11BXC223KS	22,000	1210	BX	100	K	/11
M123A11BXC273KS	27,000	1210	BX	100	K	/11

Vishay "Extended Range" MIL-PRF-123 Capacitors

- Same **PME** and wet process reliability
- Sizes down to 0402
- Voltages from 16V – 500V
- Controlled Dielectric Thickness available
- Many values already completed 4000 hour life test!
- **SEE TABLE 2 FOR RANGE OF VALUES**





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Table 2: MIL PRF 123 Extended Range Values and Part Number Breakdown

VOLTAGE	CAPACITANCE RANGE: EXTENDED RANGE X7R MLCC's with MIL PRF 123 SCREENING AND QCI								
	0402	0603	0805	1206	1210	1808	1812	1825	2220 / 2225
6.3	330pF - 10nF	330pF - 100nF							
10	330pF - 10nF	330pF - 100nF	330pF - 100nF						
16	330pF - 10nF	330pF - 100nF	330pF - 100nF	1.2nF - 1.0UF	10nF - 390nF				
25	330pF - 10nF	330pF - 33nF	330pF - 100nF	1.2nF - 470nF	10nF - 390nF	5.6nF - 100nF	27nF - 820nF	180nF - 470nF	120nF - 470nF
50		330pF - 33nF	330pF - 100nF	1.2nF - 470nF	10nF - 390nF	5.6nF - 100nF	27nF - 820nF	180nF - 470nF	120nF - 470nF
100		330pF - 10nF	330pF - 82nF	1.2nF - 150nF	10nF - 390nF	5.6nF - 33nF	27nF - 820nF	56nF - 150nF	
175							27nF - 470nF		
200		330pF - 5.6nF		1.2nF - 10nF			27nF - 330nF		
500				1.2nF - 10nF			27nF - 330nF		

VOLTAGE	CAPACITANCE RANGE: EXTENDED RANGE COG (NPO) MLCC's with MIL PRF 123 SCREENING AND QCI								
	0402	0603	0805	1206	1210	1808	1812	1825	2225
10	1.0pF - 100pF	1.0pF - 680pF	1.0pF - 820pF						
16	1.0pF - 100pF	1.0pF - 680pF	1.0pF - 820pF	1.0pF - 2.2nF					
25	1.0pF - 100pF	1.0pF - 680pF	1.0pF - 820pF	1.0pF - 2.2nF	330pF - 3.3nF	330pF - 3.3nF	1.0nF - 10nF		
50	1.0pF - 100pF	1.0pF - 680pF	1.0pF - 680pF	1.0pF - 2.2nF	330pF - 3.3nF	330pF - 3.3nF	1.0nF - 10nF	10nF - 22nF	1.2nF - 10nF
100	1.0pF - 100pF	1.0pF - 220pF	1.0pF - 470pF	1.0pF - 1.0nF	330pF - 2.2nF	330pF - 2.2nF	1.0nF - 4.7nF	3.9nF - 10nF	1.2nF - 10nF
200		1.0pF - 100pF							

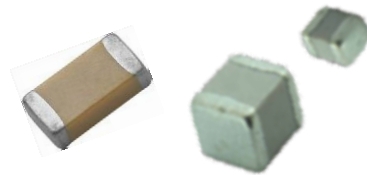
Typical Vishay Generic PN
VJ 0603 Y 101 J L B A J xy
VJ 0603
Y
101
J
L
B
A
J
xy

Part Number Breakdown:

Vishay Cap Family code and case size
Y = Dielectric A = BP (NPO), Y = BX (X7R); BS supplied as BX
Cap Value (2 characters = value, 3rd character = # of zeros) in pF; (103 = 10,000pF = 0.01UF = 10nF)
Cap Tolerance J = 5%; K = 10%; N = +10/-0; B = +/-0.1pF
Termination: L = Tin Lead (SnPb) Alloy with 4% minimum Pb content; F = PdAg
Voltage Rating: Y = 6.3V; Q = 10V; J = 16V; X = 25V; A = 50V; B = 100V; C = 200V; E = 500V; (see xy below)
Marking: A = unmarked on the device
7" reels; J = Low Volume (500 pcs); C and T = Large Volume (Quantity varies by case size and cap value)
Unique 2 character identifier specific to one Customer Part Number providing full Process Control;
includes selections such as non-standard voltage (175V X7R), dielectric thickness, ESR limit, etc.

Vishay Hi-Frequency Ceramic Caps

- High Q > 2000 at 1MHz
- Ultra-stable "D" Dielectric
- Ultra-low ESR
- Available with 123 Screening and QCI



Vishay PN	Competitor Cross Reference Series:					
	ATC	AVX	Temex	Novacap	DLI	Johanson
VJ0402D	600L	UQCL	SHL		C04	R07S
VJ0603D	600S	UQCS	SHS		C06	R14S
VJ0805D	600F	UQCF	SHF		C08	R15S
VJ0505D	100A	SQCA	CHA/SHA	RF0505	C11	
VJ1111D	100B	SQCB	CHB/NHB/ SHB	RF1111	C17 / C18	S42E
VJ2525D	100C			RF2525	C22	S48E
VJ3838D	100E				C40	S58E

