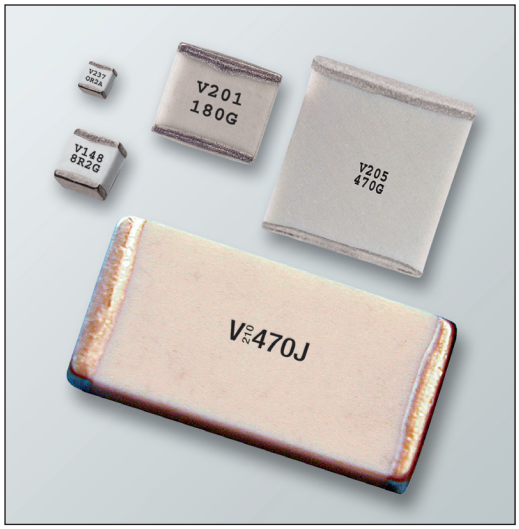
NON-MAGNETIC HIGH Q MULTI-LAYER CAPACITORS



These Multi-Layer capacitors have been sold around the world for two decades. Made from highly stable, low loss dielectric formulations, these traditional porcelain MLCs are known for their high RF power handling capability. Available in all industry common case sizes, Voltronics offers capacitors with exactly the size, capacitance value, and voltage rating that your application requires. The special silver-palladium termination and the proprietary ceramic formulations guarantee consistent non-magnetic performance. All MLCs in these series are RoHS compliant.

Chips are available either with standard termination or can be fitted with ribbon leads, depending on your application.

Case Size Series	Dimensions inches	Working Voltage Range, Volts DC	Capacitance Range, pF
5	0.055" x 0.055"	Up to 250V	0.1 to 100
11	0.110" x 0.110"	Up to 1000V	0.1 to 1000
25	0.220" x 0.250"	Up to 2500V	1.0 to 2700
38	0.380" x 0.380"	Up to 7200V	1.0 to 5100

Codes	Capacitance Codes		Tolerance Codes		DC Working Voltage	Termination Codes		Material Codes		Lead Codes	
11	0R1	0.1pF	A	± 0.05pF	50	M	New Flexible Polymer/Ag Layer, 400-µ-in Cu barrier, 200-µ-in Sn plate. (RoHS)	H	AH + 90±20ppm/°C	Blank	= no leads
25	100	10pF	B	± 0.10pF	100			F	CF 0±15ppm/°C	R	= Ribbon leads
38	101	100pF	C	± 0.25pF	200	S	Original Pd/Ag plate.				
	102	1000pF	D	± 0.50pF	300	W	New Ag Layer, 400-500µ-in Cu barrier, 200-µ-in 90/10 Sn plate. (RoHS)				
			F	± 1%	500						
			G	± 2%	600						
			J	± 5%	1000						
			K	± 10%	1500						
					2500						
					3600						
					7200						

11 Series — **7R5** Capacitance Code — **B** Tolerance — **1000** DC Working Voltage — **M** Termination — **H** Material — **R** Lead

Consult Factory for Complete Catalog

100-10 Ford Road, Denville, NJ 07834-1396
P (973) 586-8585 • F (973) 586-3404 • www.voltronicscorp.com • email: info@voltronicscorp.com

FOR NMR PROBES AND MRI SURFACE COILS

Description

Porcelain Capacitors
Low ESR, High -Q
Capacitance Range 0.1 - 5100 pF
Zero TCC
Low Noise
High Self-resonance
Established reliability

Functional Applications

Impedance Matching
DC Blocking
Bypass
Coupling
Tuning
Feedback

Part Numbering System

11-470-J-1000-W-F

- 11 Series Case Size
- 47 pF, J Tolerance
- 1000 V
- W-Termination
- CF Material

Electrical Specifications

Dissipation Factor	0.05% @ 1 MHz max.
Dielectric Withstanding Voltage Voltage Rating (WVDC) DWV	 Please see Chart 250% of rated WVDC for 5 sec. Unless specified in chart
Insulation Resistance @ 25 °C @ 125 °C	 10^6 M Ω min. 10^5 M Ω min.
Aging	None
Piezoeffects	None
Dielectric Absorption	None
Capacitance Tolerances	A, B, C, D below 10 pF F, G, J, and K, 10 pF and above

Lead Types

Axial Ribbon*
Radial Ribbon*
Center Ribbon*
None

*add -R and type of Ribbon to end of part number

Packaging

Style	Package	Option
5 Series	Bulk in plastic bags	Tape & Reel - 3,500 pcs.
11 Series	Bulk in plastic bags	Tape & Reel - 2,350 pcs.
25 Series	Bulk in plastic bags	Tape & Reel - 500 pcs.
38 Series	Bulk in plastic bags	Tape & Reel - 250 pcs.

Tolerance Codes

A	± .05pF
B	± .1pF
C	± .25pF
D	± .5pF
F	± 1%
G	± 2%
J	± 5%
K	± 10%

CAP CODE	CAP (pF)	5 Series 0505	11 Series 1111	25 Series 2225	38 Series 3838
0R1	0.1				
to	to				
1R0	1				
to	to				
2R0	2				
2R1	2.1				
2R2	2.2				
2R4	2.4				
2R7	2.7				
3R0	3.0				
3R3	3.3				
3R6	3.6				
3R9	3.9				
4R3	4.3				
4R7	4.7				
5R1	5.1				
5R6	5.6	250 V			
6R2	6.2				
6R8	6.8		1000 V		
7R5	7.5				
8R2	8.2				
9R1	9.1				
100	10			2500 V	
110	11			DWV = 3000 V	
120	12				
130	13				
150	15				
160	16				7200 V
180	18				DWV = 8700 V
200	20				
220	22				
240	24				
270	27				
300	30				
330	33				
360	36	200 V			
390	39				
430	43				
470	47				
510	51				
560	56				
620	62				
680	68				
750	75				
820	82				
910	91				
101	100				
111	110		500 V		3600 V
121	120				DWV = 4400 V
131	130				
151	150				
161	160				
181	180				
201	200				
221	220		200 V		
241	240				
271	270				
301	300			1500 V	
331	330			DWV = 1800 V	
361	360				
391	390				
431	430				2500 V
471	470				DWV = 3750 V
511	510		100 V		
561	560				
621	620				
681	680			1000 V	
751	750		50 V	DWV = 1500 V	
821	820				1000 V
911	910				DWV = 1500 V
102	1000				
122	1200				
152	1500			500 V	
182	1800				
222	2200			300 V	
272	2700				
332	3300				
392	3900				500 V
472	4700				
512	5100				
Reel QTY		3500	2350	500	250

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38-220-G-7200-SH 25-6R8-J-2500-M-H 25-4R7-J-2500-M-H 25-271-J-2500-M-H 25-221-J-2500-M-H