

High Voltage MLC Ledged

RV Style – RoHS Compliant High Voltage DIP Ledged

COG Dielectric General Specifications

Capacitance Range
100 pF to 1.2 μF
(25°C, 1.0±0.2 Vrms (open circuit voltage) at 1 KHz, for ≤100 pF use 1 MHz)

Capacitance Tolerances
±5%, ±10%, ±20%

Operating Temperature Range
-55°C to +125°C

Temperature Characteristic
0 ± 30 ppm/°C

Voltage Ratings
1000 VDC thru 5000 VDC (+125°C)

Dissipation Factor
0.15% max.
(25°C, 1.0±0.2 Vrms (open circuit voltage) at 1 KHz, for ≤100 pF use 1 MHz)

Insulation Resistance (+25°C, at 500V)
100K MΩ min., or 1000 MΩ-μF min., whichever is less

Insulation Resistance (+125°C, at 500V)
10K MΩ min., or 100 MΩ-μF min., whichever is less

Dielectric Strength
120% rated voltage, 5 seconds

Life Test
100% rated and +125°C

N1500 General Specifications

Capacitance Range
100 pF to 1.9 μF
(25°C, 1.0±0.2 Vrms (open circuit voltage) at 1 KHz)

Capacitance Tolerances
±5%, ±10%, ±20%

Operating Temperature Range
-55°C to +125°C

Temperature Characteristic
-1500 ±250 ppm/°C

Voltage Ratings
1000 VDC thru 5000 VDC (+125°C)

Dissipation Factor
0.15% max.
(25°C, 1.0±0.2 Vrms (open circuit voltage) at 1 KHz)

Insulation Resistance (+25°C, at 500V)
100K MΩ min., or 1000 MΩ-μF min., whichever is less

Insulation Resistance (+125°C, at 500V)
10K MΩ min., or 100 MΩ-μF min., whichever is less

Dielectric Strength
120% rated voltage, 5 seconds

Life Test
100% rated and +125°C

X7R Dielectric General Specifications

Capacitance Range
100 pF to 15 μF
(25°C, 1.0±0.2 Vrms (open circuit voltage) at 1 KHz)

Capacitance Tolerances
±10%, ±20%, +80%, -20%

Operating Temperature Range
-55°C to +125°C

Temperature Characteristic
±15% (0 VDC)

Voltage Ratings
1000 VDC thru 5000 VDC (+125°C)

Dissipation Factor
2.5% max.
(25°C, 1.0±0.2 Vrms (open circuit voltage) at 1 KHz)

Insulation Resistance (+25°C, at 500V)
100K MΩ min., or 1000 MΩ-μF min., whichever is less

Insulation Resistance (+125°C, at 500V)
10K MΩ min., or 100 MΩ-μF min., whichever is less

Dielectric Strength
120% rated voltage, 5 seconds

Life Test
100% rated and +125°C

HOW TO ORDER

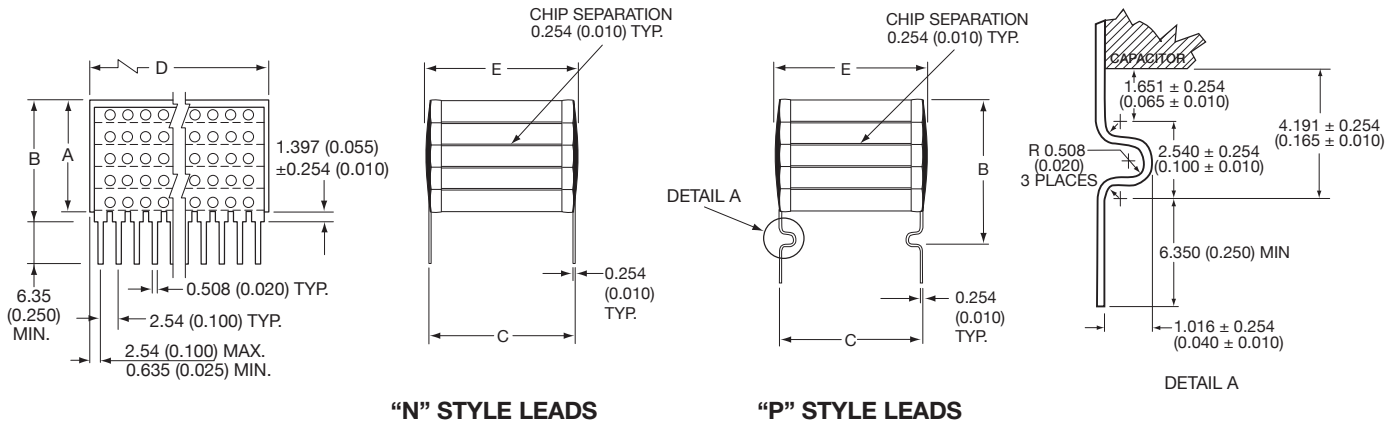
RV	01	A	C	105	M	A	N	650
AVX Style	Size See Dimensions chart	Voltage 1K = A 2K = G 3K = H 4K = J 5K = K	Temperature Coefficient COG = A X7R = C N1500 = 4	Capacitance Code (2 significant digits + number of zeros) 10 pF = 100 100 pF = 101 1,000 pF = 102 22,000 pF = 223 220,000 pF = 224 1 μF = 105 10 μF = 106 100 μF = 107	Capacitance Tolerance COG: J = ±5% K = ±10% M = ±20% X7R: K = ±10% M = ±20% Z = +80%, -20% N1500: J = ±5% K = ±10% M = ±20%	Test Level A = Does not apply	Termination N = Straight Lead J = Leads formed in L = Leads formed out P = P Style Leads Z = Z Style Leads	Height Max Dimension "A" 120 = 0.120" 240 = 0.240" 360 = 0.360" 480 = 0.480" 650 = 0.650"



Note: Capacitors with X7R dielectrics are not intended for applications across AC supply mains or AC line filtering with polarity reversal. Contact plant for recommendations.

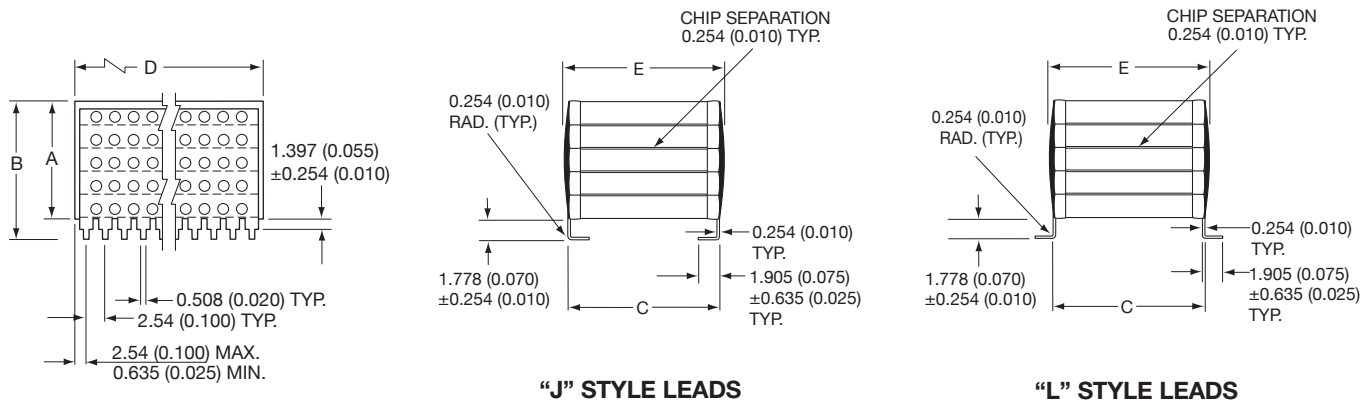
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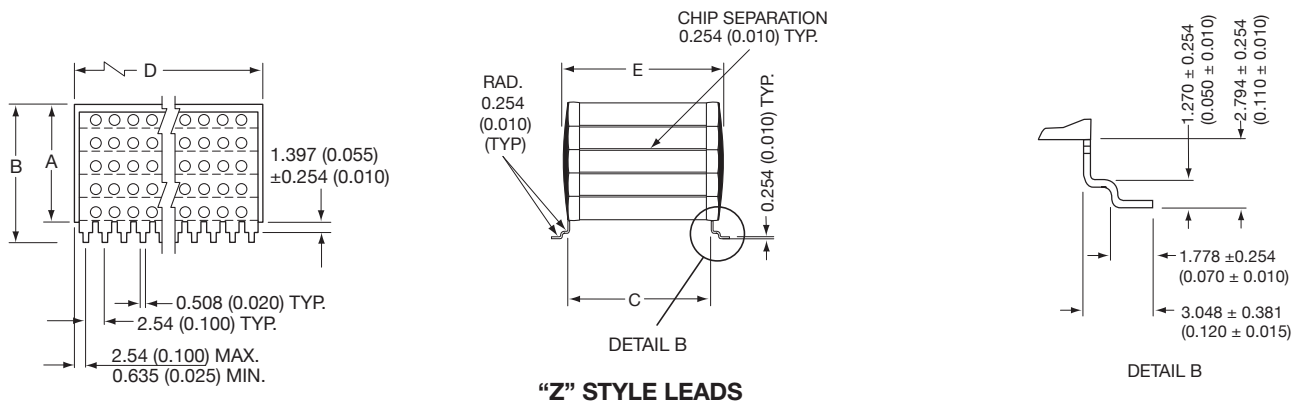
“N” STYLE LEADS

“P” STYLE LEADS



“J” STYLE LEADS

“L” STYLE LEADS



“Z” STYLE LEADS

DETAIL B

DIMENSIONS

millimeters (inches)

Style	A (max.)	B (max.)	C ± 0.635 (±0.025)	D ± 0.635 (±0.025)	E (max.)	No. of Leads per side
RV01	See page 86 for maximum "A" Dimension	For "N" Style Leads: "A" Dimension Plus 1.651 (0.065) For "J" & "L" Style Leads: "A" Dimension Plus 2.032 (0.080) For "P" Style Leads: "A" Dimension Plus 4.445 (0.175) For "Z" Style Leads: "A" Dimension Plus 3.048 (0.120)	53.3 (2.100)	10.5 (0.415)	54.9 (2.160)	4
RV02			39.1 (1.540)	20.3 (0.800)	40.7 (1.600)	8
RV03			27.2 (1.070)	10.5 (0.415)	28.2 (1.130)	4
RV04			10.2 (0.400)	10.2 (0.400)	11.2 (0.440)	4
RV05			6.35 (0.250)	6.35 (0.250)	7.62 (0.300)	3
RV06			53.3 (2.100)	29.0 (1.140)	54.9 (2.160)	11

High Voltage MLC Leaded

RV Style – RoHS Compliant High Voltage DIP Leaded

Max Capacitance (µF) Available Versus Style with Height (A) of 0.120" - 3.05mm

AVX STYLE	RV01 AN120					RV02 AN120					RV03 AN120					RV04 AN120					RV05 AN120		RV06 AN120				
	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	1KV	2KV	3KV	4KV	5KV
COG	.086	.024	.011	.0062	.0052	.120	.034	.015	.0088	.0074	.042	.013	.0058	.0030	.0024	.012	.0040	.0018	.0009	.0007	.0048	.0013	.240	.066	.028	.018	.015
N1500	.140	.042	.018	.010	.0084	.200	.058	.024	.014	.012	.068	.020	.0090	.0050	.0040	.020	.0066	.0028	.0014	.0012	.0078	.0022	.380	.100	.046	.030	.026
X7R	1.10	.260	.150	.066	.052	1.50	.360	.200	.094	.078	.520	.130	.072	.032	.024	.160	.042	---	---	---	.060	---	3.00	.700	.440	.200	.170

Max Capacitance (µF) Available Versus Style with Height (A) of 0.240" - 6.10mm

AVX STYLE	RV01 AN240					RV02 AN240					RV03 AN240					RV04 AN240					RV05 AN240		RV06 AN240				
	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	1KV	2KV	3KV	4KV	5KV
COG	.170	.048	.022	.012	.010	.240	.068	.031	.017	.015	.084	.026	.011	.0060	.0048	.025	.0082	.0036	.0018	.0014	.0096	.0027	.480	.130	.056	.036	.031
N1500	.280	.084	.036	.020	.016	.400	.110	.048	.028	.024	.130	.040	.018	.010	.0080	.040	.013	.0056	.0028	.0025	.015	.0044	.760	.210	.092	.060	.052
X7R	2.20	.520	.300	.130	.100	3.10	.720	.400	.180	.150	1.00	.270	.140	.064	.048	.330	.084	---	---	---	.120	---	6.00	1.40	.880	.400	.340

Max Capacitance (µF) Available Versus Style with Height (A) of 0.360" - 9.15mm

AVX STYLE	RV01 AN360					RV02 AN360					RV03 AN360					RV04 AN360					RV05 AN360		RV06 AN360				
	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	1KV	2KV	3KV	4KV	5KV
COG	.250	.072	.033	.018	.015	.360	.100	.047	.026	.022	.120	.039	.017	.0090	.0072	.038	.012	.0054	.0027	.0022	.014	.0040	.720	.200	.084	.055	.047
N1500	.420	.120	.055	.030	.025	.600	.170	.072	.043	.036	.200	.060	.027	.015	.012	.060	.020	.0084	.0043	.0037	.023	.0066	1.10	.310	.130	.090	.078
X7R	3.30	.780	.450	.200	.150	4.70	1.00	.600	.280	.230	1.50	.410	.210	.096	.072	.490	.120	---	---	---	.180	---	9.00	2.10	1.30	.600	.510

Max Capacitance (µF) Available Versus Style with Height (A) of 0.480" - 12.2mm

AVX STYLE	RV01 AN480					RV02 AN480					RV03 AN480					RV04 AN480					RV05 AN480		RV06 AN480				
	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	1KV	2KV	3KV	4KV	5KV
COG	.340	.096	.044	.024	.020	.480	.130	.063	.035	.030	.160	.052	.023	.012	.0096	.051	.016	.0072	.0036	.0029	.019	.0054	.960	.260	.110	.073	.062
N1500	.560	.160	.073	.040	.033	.800	.230	.096	.057	.048	.270	.080	.036	.020	.016	.080	.026	.011	.0057	.0050	.031	.0088	1.50	.420	.180	.120	.100
X7R	4.40	1.00	.600	.260	.200	6.30	1.40	.800	.370	.310	2.00	.550	.280	.120	.096	.650	.160	---	---	---	.240	---	12.0	2.80	1.70	.800	.68

Max Capacitance (µF) Available Versus Style with Height (A) of 0.650" - 16.5mm

AVX STYLE	RV01 AN650					RV02 AN650					RV03 AN650					RV04 AN650					RV05 AN650		RV06 AN650				
	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	1KV	2KV	3KV	4KV	5KV
COG	.430	.120	.056	.031	.026	.610	.170	.079	.044	.037	.210	.065	.029	.015	.012	.064	.020	.009	.0045	.0037	.024	.0068	1.20	.330	.140	.092	.078
N1500	.700	.210	.092	.050	.042	1.00	.290	.120	.072	.060	.340	.100	.045	.025	.020	.100	.033	.014	.0072	.0063	.039	.011	1.90	.530	.230	.150	.130
X7R	5.50	1.30	.750	.330	.260	7.90	1.80	1.00	.470	.390	2.60	.690	.360	.160	.120	.820	.210	---	---	---	.300	---	15.0	3.50	2.20	1.00	.850