

RoHS Compliant High Voltage DIP Leded (RV Style)



COG Dielectric General Specifications

Capacitance Range
100 pF to 1.2 μ F
(25°C, 1.0 \pm 0.2 Vrms (open circuit voltage)
at 1 KHz, for \leq 100 pF use 1 MHz)

Capacitance Tolerances
 \pm 5%, \pm 10%, \pm 20%

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

Temperature Characteristic
0 \pm 30 ppm/°C

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

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

Insulation Resistance (+25°C, at 500V)
100K M Ω min., or 1000 M Ω - μ F min.,
whichever is less

Insulation Resistance (+125°C, at 500V)
10K M Ω min., or 100 M Ω - μ F 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 μ F
(25°C, 1.0 \pm 0.2 Vrms (open circuit voltage)
at 1 KHz)

Capacitance Tolerances
 \pm 5%, \pm 10%, \pm 20%

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

Temperature Characteristic
-1500 \pm 250 ppm/°C

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

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

Insulation Resistance (+25°C, at 500V)
100K M Ω min., or 1000 M Ω - μ F min.,
whichever is less

Insulation Resistance (+125°C, at 500V)
10K M Ω min., or 100 M Ω - μ F 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 μ F
(25°C, 1.0 \pm 0.2 Vrms (open circuit voltage)
at 1 KHz)

Capacitance Tolerances
 \pm 10%, \pm 20%, +80%, -20%

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

Temperature Characteristic
 \pm 15% (0 VDC)

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

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

Insulation Resistance (+25°C, at 500V)
100K M Ω min., or 1000 M Ω - μ F min.,
whichever is less

Insulation Resistance (+125°C, at 500V)
10K M Ω min., or 100 M Ω - μ F min.,
whichever is less

Dielectric Strength
120% rated voltage, 5 seconds

Life Test
100% rated and +125°C

HOW TO ORDER

AVX Styles: RV01 THRU RV06

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 μ F = 105 10 μ F = 106 100 μ F = 107	Capacitance Tolerance COG: J = \pm 5% K = \pm 10% M = \pm 20% X7R: K = \pm 10% M = \pm 20% Z = +80%, -20% N1500: J = \pm 5% K = \pm 10% M = \pm 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"

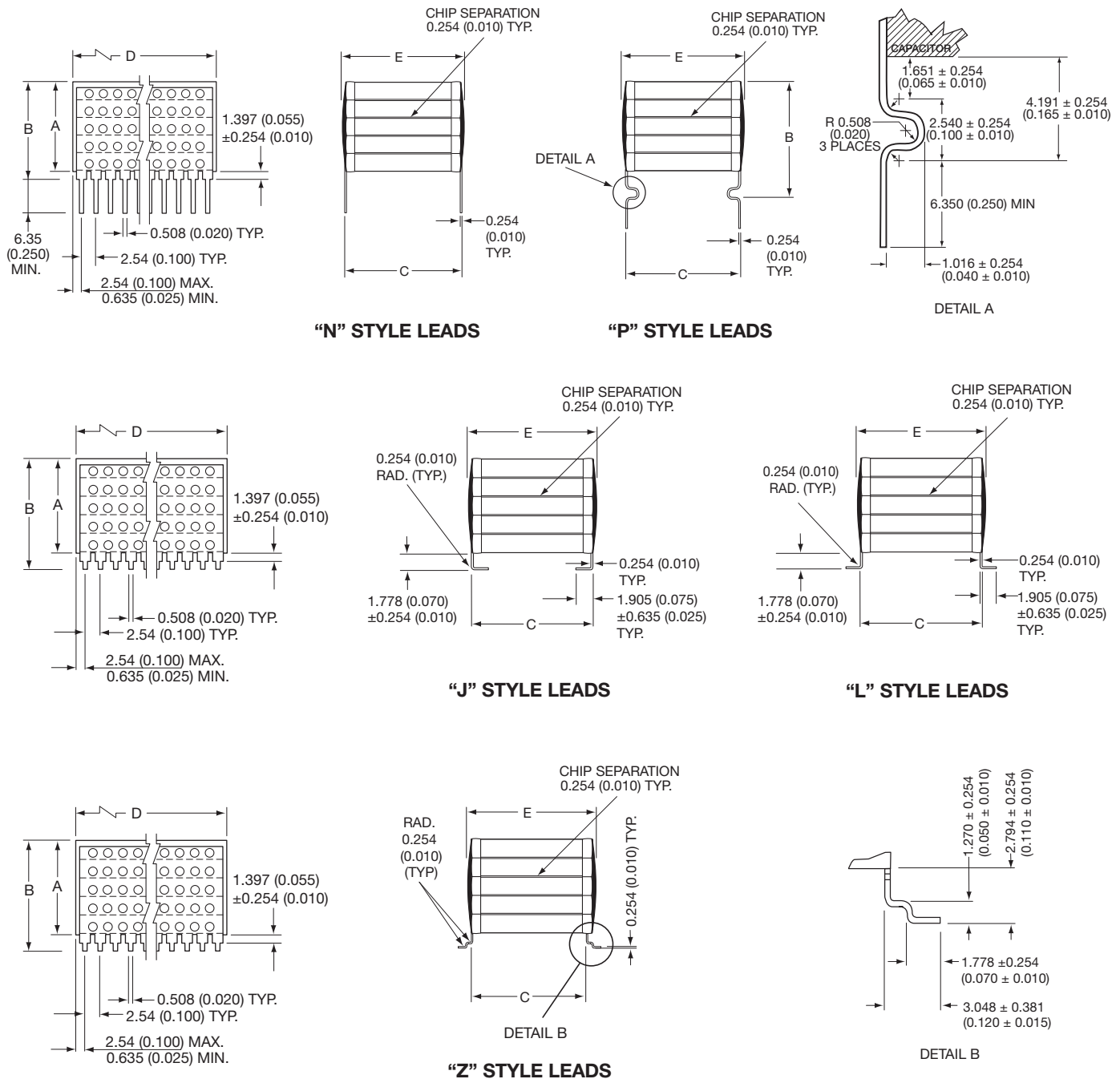


Note: Capacitors with X7R dielectrics are not intended for applications across AC supply mains or AC line filtering with polarity reversal. Contact plant for recommendations.

RoHS Compliant High Voltage DIP Leaded (RV Style)



Surface Mount and Thru-Hole RV Styles



DIMENSIONS

millimeters (inches)

Style	A (max.)	B (max.)	C ±.635 (±0.025)	D ±.635 (±0.025)	E (max.)	No. of Leads per side
RV01	See page 3 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



RoHS Compliant High Voltage DIP Leded (RV Style)



Surface Mount and Thru-Hole RV Styles

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	3KV	4KV	5KV	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	3KV	4KV	5KV	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	3KV	4KV	5KV	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	3KV	4KV	5KV	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	3KV	4KV	5KV	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			