

## High CV Conformal Coated Radial Leaded Capacitors [Rated Voltage : 16V-5KV]

### RXX Series



#### ◆ Features

- Good frequency response
- Rugged design for harsh environments
- High current carrying capability
- High reliability  
(also available with MIL or HIREL screening)
- Available in RoHS or Pb solder
- Also available in customer sizes (Consult factory)

#### ◆ Applications

- Input or output filter for switchmode power supply
- Inverters or converters
- Surge protection
- Voltage multipliers
- Other applications requiring high CV

#### ◆ Summary of Specification

Operating Temperature	-55~+125 °C
Rated Voltage	16V to 5KV
Temperature Coefficient	NPO : $\leq \pm 30\text{ppm}/^\circ\text{C}$ , -55~+125 °C (EIA Class I )
	X7R : $\leq \pm 15\%$ , -55~+125 °C (EIA Class II )
	BX (BR, BQ) : $\leq \pm 15\%$ , -55~+125 °C (EIA Class II )
Capacitance Range(at 25 °C )	NPO :100pF to 2.7uF
	X7R :300pF to 56uF
	BX (BR, BQ) : Consult Factory
Dissipation Factor :	NPO : $Q \geq 1000$
	X7R : D.F. $\leq 2.5\%$
	BX (BR, BQ) : D.F. $\leq 2.5\%$
Insulation Resistance	10G $\Omega$ or 1000/C $\Omega$ whichever is smaller
Aging	NPO:0% ; X7R: 2.50 % ; BX (BR, BQ): 1.00%
DWV	2.5 × RV (RV $\leq$ 200V)
	2.0 × RV (RV < 500V)
	1.5 × RV (RV = 500V)
	1.2 × RV (RV > 500V)
VTL	NPO: $\pm 30 \text{ ppm}/^\circ\text{C}$
	X7R:N/A
	BX:+15%~ -25%
	BR:+15%~ -40%
	BQ:+15%~ -50%

#### ◆ How To Order

R

XX

X

103

K













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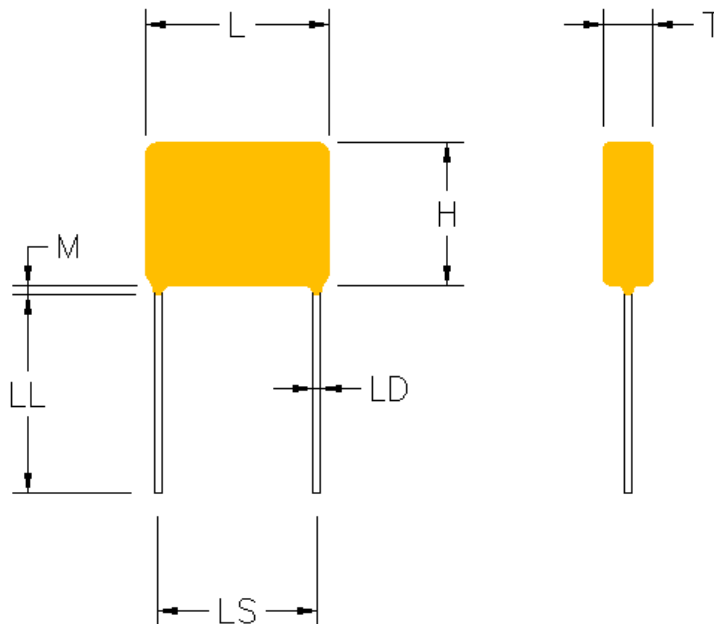
B

Product Code	Size Code	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging
R: High CV Conformal Radial Leaded Capacitors	EX.: 01 02 03 04	Ex.: N: NPO X: X7R M:BX/BR/BQ	Ex.: 100:10×10 <sup>0</sup> 471:47×10 <sup>1</sup> 102:10×10 <sup>2</sup>	Ex.: D:±0.50pF J :±/ 5% K :±/-10% M:±/-20%	Ex.: 050:50Vdc 201:200Vdc 501:500Vdc 102:1000Vdc 502:5000Vdc	T: Taping & Reel B: Bulk

## ◆ Dimension

Dimension Unit : inches [mm]

Size Code	Pictures	L	H	T	LS	LL	LD
01		.200 (5.08)	.200 (5.08)	.200 (5.08)	.200 (5.08)	1.0 (25.4) min.	.020 (.508)
02		.250 (6.35)	.220 (5.59)	.270 (6.86)	.170 (4.32)	1.0 (25.4) min.	.025 (.635)
03		.300 (7.62)	.330 (7.62)	.200 (5.08)	.200 (5.08)	1.0 (25.4) min.	.020 (.508)
04		.400 (10.16)	.400 (10.16)	.200 (5.08)	.200 (5.08)	1.0 (25.4) min.	.020 (.508)
05		.500 (12.7)	.500 (12.7)	.200 (5.08)	.400 (10.16)	1.0 (25.4) min.	.025 (.635)
06		.870 (22.1)	.600 (15.2)	.200 (5.08)	.790 (20.1)	1.0 (25.4) min.	.032 (.813)
07		1.100 (27.9)	.600 (15.2)	.200 (5.08)	.980 (24.9)	1.0 (25.4) min.	.032 (.813)
08		1.100 (27.9)	.600 (15.2)	.350 (8.89)	.980 (24.9)	1.0 (25.4) min.	.032 (.813)
09		.670 (17.0)	.540 (13.7)	.200 (5.08)	.575 (14.6)	1.0 (25.4) min.	.025 (.635)
10		.930 (23.6)	.720 (18.3)	.250 (6.35)	.800 (20.3)	1.0 (25.4) min.	.032 (.813)
11		1.450 (36.8)	.720 (18.3)	.320 (8.13)	1.375 (34.9)	1.0 (25.4) min.	.025 (.635)
12		.370 (9.4)	.300 (7.62)	.270 (6.86)	.275 (6.99)	1.0 (25.4) min.	.025 (.635)



M:Meniscus Height .050" Max

## ◆ Capacitance Range

### Maximum Capacitance and available Voltage for NP0 dielectric (nF unless otherwise noted)

Size Code	16V	25V	50V	100V	200V	500V	1KV	2KV	3KV	4KV	5KV
R01	22.5	15	12	10	5.6	1.8	820 pF	470 pF	220 pF	150 pF	100 pF
R02	56	47	33	18	8.2	4.7	1.5	680 pF	330 pF	150 pF	100 pF
R03	120	70	60	50	40	20	6.8	3.3	1.8	1.0	470 pF
R04	180	120	100	82	50	30	10	4.7	1.0	330 pF	180 pF
R05	390	240	200	180	110	70	22	10	6.8	2.2	1.0
R06	1.0 $\mu$ F	750	620	560	360	240	82	39	27	8.2	4.7
R07	1.3 $\mu$ F	820	680	560	390	260	100	47	33	10	5.2
R08	1.5 $\mu$ F	1.2 $\mu$ F	1.1 $\mu$ F	820	470	330	150	68	47	18	10
R09	450	330	270	220	180	56	27	8.2	5.6	2.7	1.8
R10	1.5 $\mu$ F	1.0 $\mu$ F	900	750	470	300	120	62	39	12	5.6
R11	2.7 $\mu$ F	1.8 $\mu$ F	1.6 $\mu$ F	1.2 $\mu$ F	680	470	220	82	56	27	18
R12	160	100	82	68	39	27	8.2	3.9	820 pF	270 pF	160 pF

■ Other dimensions, capacitance values and voltages rating are available. Please contact HEC.

### Maximum Capacitance and available Voltage for X7R dielectric ( $\mu$ F unless otherwise noted)

Note: Extended ranges shown in / **BOLD**

Size Code	16V	25V	50V	100V	200V	500V	1KV	2KV	3KV	4KV	5KV
R01	560nF/2	390nF/1.5	330nF/1	270nF/ <b>680nF</b>	120nF	33nF	6.8nF	3.3nF	1.5nF	500pF	300pF
R02	1.2/2.7	820nF/1.8	680nF/1.2	560nF/ <b>820nF</b>	270nF	68nF	18nF	3.3nF	2.2nF	1nF	500pF
R03	4.7/5.6	2.7/4.7	2.2/3.9	1.8/3.3	800nF	300nF	100nF	4.7nF	10nF	3.3nF	1.8nF
R04	8.2/10	4.7/6.8	3.3/4.7	2.7/3.3	1	470nF	180nF	100nF	68nF	22nF	10nF
R05	12/15	8.2/12	7.5/10	6.2/6.8	2.7	1	330nF	180nF	100nF	33nF	18nF
R06	39	28	24	18	6.8	3	1	470nF	330nF	100nF	47nF
R07	33	27	22	10	6.8	2.4	820nF	560nF	330nF	220nF	82nF
R08	47	33	22	16	10	4.7	1.8	820nF	560nF	270nF	100nF
R09	10	8.2	5.6	3.9	2.7	1.5	390nF	120nF	56nF	27nF	8.2nF
R10	47	39	30	24	16	8	2.7	1.5	1	330nF	180nF
R11	56	39	27	18	12	5.6	2.7	1.6	820nF	390nF	220nF
R12	6.8/8.2	3.9/5.6	2.7/3.9	2.5/2.9	820nF	390nF	120nF	82nF	56nF	18nF	8.2nF

■ Other dimensions, capacitance values and voltages rating are available. Please contact HEC.

Maximum Capacitance and available Voltage for BX dielectric ( $\mu\text{F}$  unless otherwise noted)

VTL			BX	BX	BR	BQ					
Size Code			50V	100V	200V	500V					
R01											
R02											
R03											
R04											
R05			Consult Factory								
R06											
R07											
R08											
R09											
R10											
R11											
R12											

■ Other dimensions, capacitance values and voltages rating are available. Please contact HEC.