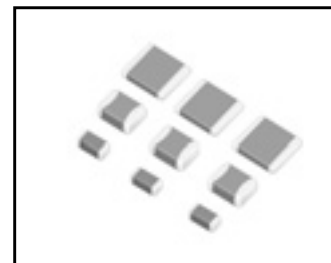


MEDIUM/HIGH VOLTAGE MULTILAYER CERAMIC CAPACITORS [RC Series]

■ Features

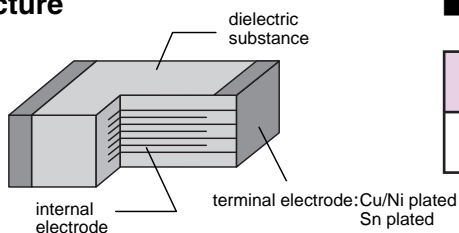
- Little migration and high reliability.
- Large capacitance values in smaller sizes compared to conventional materials.
- Pb free.
- RoHS Compliant.



■ Applications

- Snubber circuit for switching power supply, digital circuit whole.

■ Structure



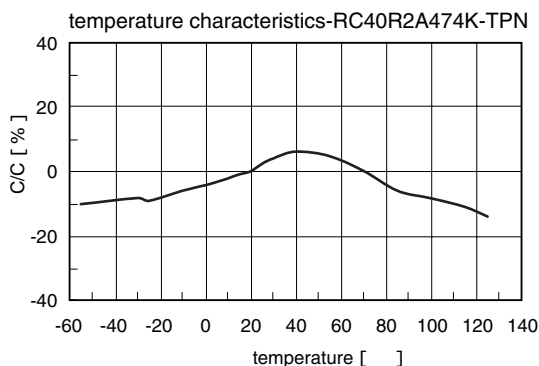
■ Range of Use

Temperature characteristics	EIA symbol	Capacitance change	Temperature range	Capacitance tolerance
R	X7R	±15%	-55~+125	K (±10%)

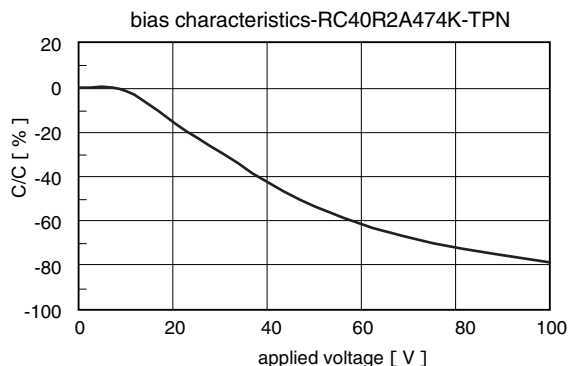
■ Capacitance Map

Type rated voltage capacitance	RC30 (3.2 × 1.6)			RC40 (3.2 × 2.5)			RC70 (4.5 × 3.2)			RC80 (5.7 × 5.0)		
	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)
223 0.022 μF			1.00									
333 0.033 μF			1.25									
473 0.047 μF			1.80			1.00						
683 0.068 μF			1.80			1.25						
104 0.1 μF	1.00	1.00				1.70			1.00			
154 0.15 μF	1.25	1.25				2.20			1.25			
224 0.22 μF	1.00	1.80			1.00	2.50			1.70			1.25
334 0.33 μF	1.25	1.80			1.25				2.20			1.70
474 0.47 μF	1.80			1.25	1.70			1.25	2.80			1.70
684 0.68 μF	1.80			1.70	2.20			1.70				2.20
105 1 μF				1.70	2.50		1.25	1.70			1.25	2.80
155 1.5 μF				2.50			1.25	2.50			1.70	
225 2.2 μF				2.50			1.70	2.80		1.25	1.70	
335 3.3 μF							2.20			1.70	2.20	
475 4.7 μF							2.80			1.70	2.80	
685 6.8 μF										2.20		
106 10 μF										2.80		

■ Capacitance-Temperature characteristics (Reference)

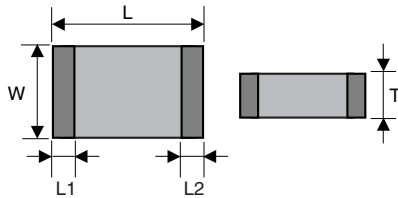


■ DC bias characteristics (Reference)



MEDIUM/HIGH VOLTAGE MULTILAYER CERAMIC CAPACITORS [RC Series]

■ Dimensions



Unit : mm

Type	EIA symbol	L	W	T	L1, L2
RC30	1206	3.2±0.2	1.6±0.2	1.80 max	0.2~
RC40	1210	3.2±0.3	2.5±0.2	2.50 max	0.3~
RC70	1812	4.5±0.4	3.2±0.3	2.80 max	0.4~
RC80	2220	5.7±0.4	5.0±0.4	2.80 max	0.4~

■ List of products in RC Series

Rated Voltage : 250Vdc

Part Number	Capacitance(μF)	Product height T (mm)
RC30R2E223K-TPN	0.022	1.00+0/-0.25
RC30R2E333K-TPN	0.033	1.25+0/-0.30
RC30R2E473K-TPN	0.047	1.80+0/-0.40
RC30R2E683K-TPN	0.068	1.80+0/-0.40
RC40R2E473K-TPN	0.047	1.00+0/-0.25
RC40R2E683K-TPN	0.068	1.25+0/-0.30
RC40R2E104K-TPN	0.1	1.70+0/-0.40
RC40R2E154K-TPN	0.15	2.20+0/-0.50
RC40R2E224K-TPN	0.22	2.50+0/-0.60
RC70R2E104K-TPN	0.1	1.00+0/-0.25
RC70R2E154K-TPN	0.15	1.25+0/-0.30
RC70R2E224K-TPN	0.22	1.70+0/-0.40
RC70R2E334K-TPN	0.33	2.20+0/-0.50
RC70R2E474K-TPN	0.47	2.80+0/-0.60
RC80R2E224K-TPN	0.22	1.25+0/-0.30
RC80R2E334K-TPN	0.33	1.70+0/-0.40
RC80R2E474K-TPN	0.47	1.70+0/-0.40
RC80R2E684K-TPN	0.68	2.20+0/-0.50
RC80R2E105K-TPN	1	2.80+0/-0.60

Rated Voltage : 100Vdc

Part Number	Capacitance(μF)	Product height T (mm)
RC30R2A104K-TPN	0.1	1.00+0/-0.25
RC30R2A154K-TPN	0.15	1.25+0/-0.30
RC30R2A224K-TPN	0.22	1.80+0/-0.40
RC30R2A334K-TPN	0.33	1.80+0/-0.40
RC40R2A224K-TPN	0.22	1.00+0/-0.25
RC40R2A334K-TPN	0.33	1.25+0/-0.30
RC40R2A474K-TPN	0.47	1.70+0/-0.40
RC40R2A684K-TPN	0.68	2.20+0/-0.50
RC40R2A105K-TPN	1	2.50+0/-0.60
RC70R2A474K-TPN	0.47	1.25+0/-0.30
RC70R2A684K-TPN	0.68	1.70+0/-0.40
RC70R2A105K-TPN	1	1.70+0/-0.40
RC70R2A155K-TPN	1.5	2.50+0/-0.60
RC70R2A225K-TPN	2.2	2.80+0/-0.60
RC80R2A105K-TPN	1	1.25+0/-0.30
RC80R2A155K-TPN	1.5	1.70+0/-0.40
RC80R2A225K-TPN	2.2	1.70+0/-0.40
RC80R2A335K-TPN	3.3	2.20+0/-0.50
RC80R2A475K-TPN	4.7	2.80+0/-0.60

Rated Voltage : 50Vdc

Part Number	Capacitance(μF)	Product height T (mm)
RC30R1H104K-TPN	0.1	1.00+0/-0.25
RC30R1H154K-TPN	0.15	1.25+0/-0.30
RC30R1H224K-TPN	0.22	1.00+0/-0.25
RC30R1H334K-TPN	0.33	1.25+0/-0.30
RC30R1H474K-TPN	0.47	1.80+0/-0.40
RC30R1H684K-TPN	0.68	1.80+0/-0.40
RC40R1H474K-TPN	0.47	1.25+0/-0.30
RC40R1H684K-TPN	0.68	1.70+0/-0.40
RC40R1H105K-TPN	1	1.70+0/-0.40
RC40R1H155K-TPN	1.5	2.50+0/-0.60
RC40R1H225K-TPN	2.2	2.50+0/-0.60
RC70R1H105K-TPN	1	1.25+0/-0.30
RC70R1H155K-TPN	1.5	1.25+0/-0.30
RC70R1H225K-TPN	2.2	1.70+0/-0.40
RC70R1H335K-TPN	3.3	2.20+0/-0.50
RC70R1H475K-TPN	4.7	2.80+0/-0.60
RC80R1H225K-TPN	2.2	1.25+0/-0.30
RC80R1H335K-TPN	3.3	1.70+0/-0.40
RC80R1H475K-TPN	4.7	1.70+0/-0.40
RC80R1H685K-TPN	6.8	2.20+0/-0.50
RC80R1H106K-TPN	10	2.80+0/-0.60

* Please contact us for the details of bulk packing.

* RC40,RC70,RC80 types are available for reflow soldering only.