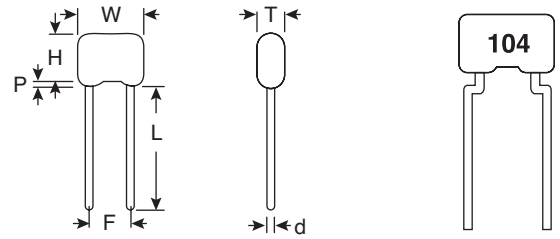




# Epoxy-Dipped Monolithic Ceramic Capacitors 21Rxxxx-RC Series

## FEATURES

- Epoxy-dipped multilayer ceramic capacitors are built with superior moisture and shock resistant epoxy coating
- Have wide application in temperature compensation circuits, blocking, coupling, power storage and memory circuits.



## CHARACTERISTICS

Item	Characteristics		
	NPO	X7R	Z5U
Dielectric Material	NPO	X7R	Z5U
Temperature Characteristics	0 ±30ppm/°C	±15%	+22 ~ -56%
Operating Temperature	-55°C -- +125°C	-55°C - +125°C	+10°C - +85°C
Working Voltage (WV)	50 Volts	50 Volts	50 Volts
Dissipation Factor (DF)@ 25°C	0.15% max. @ 1±0.2 Vrms: 1 MHz for ≤1,000pF; 1 KHz for >1,000pF	2.5% max. @ 1±0.2 Vrms, 1 KHz	2.5% max. @ 0.5±0.1 Vrms, 1 KHz
Insulation Resistance @25°C With WV applied for 60 seconds	100G Ω or 1,000MΩ per pF; whichever is less	100G Ω or 1,000MΩ per pF; whichever is less	10G Ω or 100MΩ per pF; whichever is less
Dielectric Withstanding Voltage, 25°C	250% of WV for 5 seconds	250% of WV for 5 seconds	250% of WV for 5 seconds
Life Test	@ 125°C, 150% of WV for 1,000 hrs.	@ 125°C, 150% of WV for 1,000 hrs.	@ 85°C, 150% of WV for 240 hrs.
Ageing Rate (per decade hour)	None	Typical 2.5%	Typical 5%
Available Tolerance	5%	10%	20%

## MARKING SYSTEM

Capacitance is marked in 3 digits for capacitance value >100pF and marked in actual value for capacitance ≤100pF

## SPECIFICATIONS

MOUSER STOCK NO.	Value	Tolerance	Dielectric	W (Max.)	T (Max.)	H (Max.)	F	L	P (Max.)	d
21RD610-RC	100pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RD622-RC	220pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RD647-RC	470pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RD710-RC	10pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RD722-RC	22pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RD747-RC	47pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RR510-RC	1000pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RR627-RC	270pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RR633-RC	330pF	5%	NPO	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RX310-RC	.1uF	10%	X7R	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RX410-RC	.01uF	10%	X7R	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RX421-RC	.02uF	10%	X7R	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RX510-RC	1000pF	10%	X7R	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RZ310-RC	.1uF	20%	Z5U	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05
21RZ410-RC	.01uF	20%	Z5U	3.8	2.5	3.8	2.5±0.25	6.0±0.5	1.5	0.5±0.05

Specifications are subject to change without notice. No liability or warranty implied by this information. Environmental compliance based on producer documentation.



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