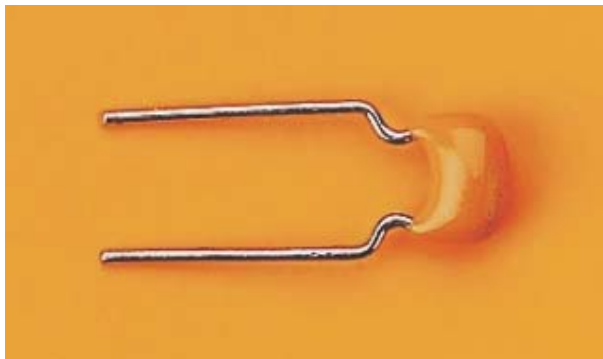


# MARR Series

## Multilayer Ceramic Capacitors



### General Information



Lead length = 25.4 minimum, Lead Diameter = 0.508

### C0G (NP0) Dielectric

### Size and Capacitance Specifications

#### EIA Characteristic

Height (H)		3.81		7.62	
Width (W)		3.81		5.08	
Depth (D)		2.54		3.18	
Lead Spacing (L.S.)		2.54		5.08	
Lead Diameter (L.D.)		0.508		0.508	
Capacitance in pF	Voltage WVDC	Voltage, DC		Voltage, DC	
	Part Number	200	100	200	100
10	MCRR25100C0GJ0200				
22	MCRR25220C0GJ0200				
33	MCRR25330C0GJ0200				
47	MCRR25470C0GJ0200				
10	MCRR50100C0GJ0200				
22	MCRR50220C0GJ0200				
33	MCRR50330C0GJ0200				
47	MCRR50470C0GJ0200				
100	MCRR50101C0GJ0200				
220	MCRR50221C0GJ0200				
100	MCRR25101C0GJ0100				
220	MCRR25221C0GJ0100				
330	MCRR25331C0GJ0100				
470	MCRR25471C0GJ0100				
1,000	MCRR25102C0GJ0100				
1,000	MCRR50102C0GJ0100				

= Industry preferred values

Dimensions : Millimetres

### Features:

- Cost effective dipped radial multilayer ceramic capacitors
- High reliability and performance
- Applications for C0G dielectric tuned circuits and filters where low loss and stability are required
- X7R dielectric offers high capacitance values in compact sizes with good stability
- Z5U dielectric can be used in coupling and decoupling applications where change of capacitance with temperature is not important

### Conformally Coated Radial Leaded MLC

Temperature Coefficients : C0G (NP0), X7R, Z5U

200, 100, 63 / 50 Volts

Case Material : Epoxy

Lead Material : Solderable

# MCCR Series



## Multilayer Ceramic Capacitors

### X7R Dielectric

#### Size and Capacitance Specifications EIA Characteristic

Height (H)		3.81	7.62	5.08	7.62	7.62
Width (W)		3.81	5.08	5.08	5.08	7.62
Depth (D)		2.54	3.18	3.18	3.18	3.81
Lead Spacing (L.S.)		2.54	5.08	2.54	5.08	5.08
Lead Diameter (L.D.)		0.508	0.508	0.508	0.508	0.508
Capacitance in pF	Voltage WVDC	WVDC		WVDC	WVDC	WVDC
	Part Number	100	63 / 50	100	63 / 50	63 / 50
1,000	MCCR25102X7RK0100					
3,300	MCCR25332X7RK0100					
10,000	MCCR25103X7RK0100					
22,000	MCCR25223X7RK0100					
1,000	MCCR50102X7RK0100					
2,200	MCCR50222X7RK0100					
3,300	MCCR50332X7RK0100					
10,000	MCCR50103X7RK0100					
22,000	MCCR50223X7RK0100					
100,000	MCCR50104X7RK0100					
10,000	MCCR25103X7RK0050					
33,000	MCCR25333X7RK0050					
47,000	MCCR25473X7RK0050					
100,000	MCCR25104X7RK0050					
47,000	MCCR50473X7RK0050					
100,000	MCCR50104X7RK0050					
220,000	MCCR50224X7RK0050					
470,000	MCCR50474X7RK0050					
1,000,000	MCCR50105X7RK0050					

Dimensions : Millimetres

= Industry preferred values

# MCRR Series




## Multilayer Ceramic Capacitors

### Z5U Dielectric

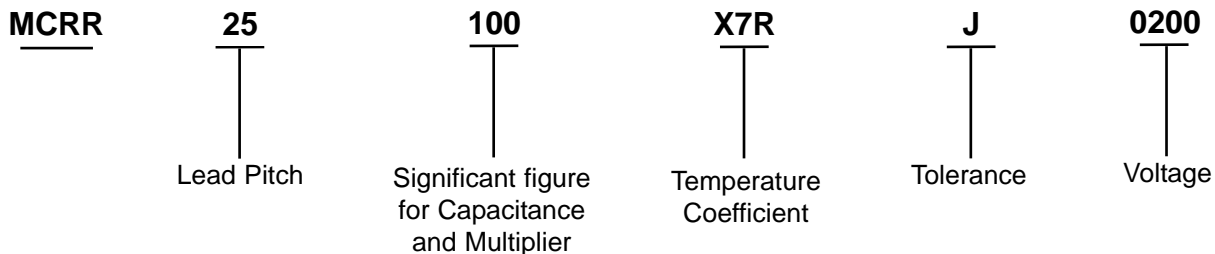
#### Size and Capacitance Specifications EIA Characteristic

<b>Height (H)</b>		5.08	7.62	7.62
<b>Width (W)</b>		5.08	5.08	7.62
<b>Depth (D)</b>		3.18	3.18	3.81
<b>Lead Spacing (L.S.)</b>		2.54	5.08	5.08
<b>Lead Diameter (L.D.)</b>		0.508	0.508	0.508
Capacitance in pF	Voltage WVDC	WVDC 63 / 50	WVDC 63 / 50	WVDC 63 / 50
	Part Number			
100,000	MCRR25104Z5UM0050			
100,000	MCRR50104Z5UM0050			
470,000	MCRR50474Z5UM0050			
1,000,000	MCRR50105Z5UM0050			

Dimensions : Millimetres

 = Industry preferred values

#### Part Number Explanation:



**Lead Pitch** : 25 = 2.54, 50 = 5.08

**Significant Figures of Capacitance and Multiplier** : First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 100,000 pF as 104

**Temperature Coefficient** : C0G (NP0), X7R, Z5U

**Capacitance Tolerances** : C0G (NP0) : J = ±5%, X7R : K = ±10%, Z5U : M = ±20%

**Voltages** : 50 = 63 / 50, 100 = 100, 200 = 200 V dc

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