

Multilayer Ceramic — Continued

MCDR Series



Lead length = 25.4min,
Lead dia = 0.508



- Cost effective dipped radial multi-layer ceramic capacitors
- High reliability and performance
- Applications for COG 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

	COG	X7R	Z5U
Operating temperature	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C
Temperature coefficient	0 ± 30ppm/°C for C > 20pf	±20%	+30% - 80%
Tolerance	±5%	±10%	±20%

N.B. For ease of selection capacitance values are listed in both pF and nF.

200 Volt d.c. COG		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
10	0.01	5	3.81	3.81	2.54	2.54	MCDR25100COGJ0200	746-988
22	0.022	5	3.81	3.81	2.54	2.54	MCDR25220COGJ0200	746-990
33	0.033	5	3.81	3.81	2.54	2.54	MCDR25330COGJ0200	747-002
47	0.047	5	3.81	3.81	2.54	2.54	MCDR25470COGJ0200	747-014

200 Volt d.c. COG		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
10	746-988						
22	746-990						
33	747-002						
47	747-014						

200 Volt d.c. COG		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
10	0.01	5	7.62	5.08	3.18	5.08	MCDR50100COGJ0200	747-026
22	0.022	5	7.62	5.08	3.18	5.08	MCDR50220COGJ0200	747-038
33	0.033	5	7.62	5.08	3.18	5.08	MCDR50330COGJ0200	747-040
47	0.047	5	7.62	5.08	3.18	5.08	MCDR50470COGJ0200	747-051
100	0.1	5	7.62	5.08	3.18	5.08	MCDR50101COGJ0200	747-063
220	0.22	5	7.62	5.08	3.18	5.08	MCDR50221COGJ0200	747-075

200 Volt d.c. COG		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
10	747-026						
22	747-038						
33	747-040						
47	747-051						
100	747-063						
220	747-075						

100 Volt d.c. COG		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
100	0.1	5	3.81	3.81	2.54	2.54	MCDR25101COGJ0100	747-087
220	0.22	5	3.81	3.81	2.54	2.54	MCDR25221COGJ0100	747-099
330	0.33	5	3.81	3.81	2.54	2.54	MCDR25331COGJ0100	747-105
470	0.47	5	3.81	3.81	2.54	2.54	MCDR25471COGJ0100	747-117
1000	1.0	5	5.08	5.08	2.54	2.54	MCDR25102COGJ0100	748-353

100 Volt d.c. COG		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
100	747-087						
220	747-099						
330	747-105						
470	747-117						
1000	748-353						

100 Volt d.c. COG		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
470	0.47	5	7.62	5.08	3.18	5.08	MCDR50471COGJ0100	748-365
1000	1.0	5	7.62	5.08	3.18	5.08	MCDR50102COGJ0100	748-377

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100 Volt d.c. COG		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
470	748-365						
1000	748-377						

100 Volt d.c. X7R		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
1000	1.0	10	3.81	3.81	2.54	2.54	MCDR25102X7RK0100	748-389
2200	2.2	10	3.81	3.81	2.54	2.54	MCDR25222X7RK0100	748-390
3300	3.3	10	3.81	3.81	2.54	2.54	MCDR25332X7RK0100	748-407
4700	4.7	10	3.81	3.81	2.54	2.54	MCDR25472X7RK0100	749-874
10000	10	10	3.81	3.81	2.54	2.54	MCDR25103X7RK0100	749-886
22000	22	10	5.08	5.08	3.18	2.54	MCDR25223X7RK0100	749-898

100 Volt d.c. X7R		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
1000	748-389						
2200	748-390						
3300	748-407						
4700	749-874						
10000	749-886						
22000	749-898						

100 Volt d.c. X7R		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
1000	1.0	10	7.62	5.08	3.18	5.08	MCDR50102X7RK0100	749-904
2200	2.2	10	7.62	5.08	3.18	5.08	MCDR50222X7RK0100	749-916
3300	3.3	10	7.62	5.08	3.18	5.08	MCDR50332X7RK0100	749-928
4700	4.7	10	7.62	5.08	3.18	5.08	MCDR50472X7RK0100	749-930
10000	10	10	7.62	5.08	3.18	5.08	MCDR50103X7RK0100	750-840
22000	22	10	7.62	5.08	3.18	5.08	MCDR50223X7RK0100	750-864
100000	100	10	7.62	5.08	3.18	5.08	MCDR50104X7RK0100	750-888

100 Volt d.c. X7R		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
1000	749-904						
2200	749-916						
3300	749-928						
4700	749-930						
10000	750-840						
22000	750-864						
100000	750-888						

63/50 Volt d.c. X7R		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
10000	10	10	3.81	3.81	2.54	2.54	MCDR25103X7RK0050	750-890
33000	33	10	5.08	5.08	3.18	2.54	MCDR25333X7RK0050	750-906
47000	47	10	5.08	5.08	3.18	2.54	MCDR25473X7RK0050	750-918
100000	100	10	5.08	5.08	3.18	2.54	MCDR25104X7RK0050	750-920

63/50 Volt d.c. X7R		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
10000	750-890						
33000	750-906						
47000	750-918						
100000	750-920						

63/50 Volt d.c. X7R		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
33000	33	10	7.62	5.08	3.18	5.08	MCDR50333X7RK0050	750-931
47000	47	10	7.62	5.08	3.18	5.08	MCDR50473X7RK0050	750-943
100000	100	10	7.62	5.08	3.18	5.08	MCDR50104X7RK0050	750-955
220000	220	10	7.62	5.08	3.18	5.08	MCDR50224X7RK0050	750-967
470000	470	10	7.62	7.62	3.81	5.08	MCDR50474X7RK0050	751-030
1000000	1000	10	7.62	7.62	3.81	5.08	MCDR50105X7RK0050	750-979

63/50 Volt d.c. X7R		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
33000	750-931						
47000	750-943						
100000	750-955						
220000	750-967						
470000	751-030						
1000000	750-979						

63/50 Volt d.c. Z5U		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
100000	100	20	5.08	5.08	3.18	2.54	MCDR25104Z5UM0050	750-980

63/50 Volt d.c. Z5U		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
100000	750-980						

63/50 Volt d.c. Z5U		Tolerance (%)	Dimensions			Lead Pitch	Mftrs. List No.	Order Code
pF	nF		H	W	D			
100000	100	20	7.62	5.08	3.18	5.08	MCDR50104Z5UM0050	750-992
470000	470	20	7.62	5.08	3.18	5.08	MCDR50474Z5UM0050	751-005
1000000	1000	20	7.62	7.62	3.81	5.08	MCDR50105Z5UM0050	751-017
2200000	2200	20	7.62	7.62	3.81	5.08	MCDR50225Z5UM0050	751-029

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63/50 Volt d.c. Z5U		Price Each					
pF	Order Code	1+	50+	100+	500+	1000+	3000+
100000	750-992						
470000	751-005						
1000000	751-017						
2200000	751-029						