

MCDR Series



Lead length=25.4min,
Lead dia=0.508

- Cost effective dipped radial multilayer 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**.

CAP231

200 Volt d. c. COG		Tolerance	Dimensions						Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.	Code	
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

pF Order Code

10	[746-988
22	[746-990
33	[747-002
47	[747-014

200 Volt d. c. COG		Tolerance	Dimensions						Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.	Code	
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

pF	Order Code
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					Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.		Code
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	5	3.81	3.81	2.54	2.54	MCDR25102COGJ0100	[	[748-353

100 Volt d.c. COG

pF	Order Code
100	[747-087
220	[747-099
330	[747-105
470	[747-117
1000	[748-353

100 Volt d. c. COG			Tolerance	Dimensions					Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.		Code
470	0.47	5	7.62	5.08	3.18	2.54	MCDR50471COGJ0100	[	[748-365
1000	1	5	7.62	5.08	3.18	2.54	MCDR50102COGJ0100	[	[748-377

100 Volt d.c. COG

pF	Order Code
470	[748-365
1000	[748-377

100 Volt d. c. X7R			Tolerance	Dimensions					Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.		Code
1000	1	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	3.81	3.81	2.54	2.54	MCDR25223X7RK0100	[	[749-898

100 Volt d.c. X7R

pF	Order Code
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			Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.		Code	
1000	1	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

pF	Order Code
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			Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.		Code	
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

pF	Order Code
10000	[750-890
33000	[750-906
47000	[750-918
100000	[750-920

63/50 Volt d. c. X7R			Tolerance				Dimensions			Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.	Code		
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

pF	Order Code
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			Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.	Code		
100000	100	20	5.08	5.08	3.18	2.54	MCDR25104Z5UM0050	[750-980		

63/50 Volt d.c. Z5U

pF	Order Code
100000	[750-980

63/50 Volt d. c. Z5U			Tolerance				Dimensions			Order
pF	nF	(%)	H	W	D	Lead Pitch	Mftrs. List No.	Code		
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		

63/50 Volt d.c. Z5U

pF	Order Code
100000	[750-992
470000	[751-005
1000000	[751-017
2200000	[751-029