

# HOW TO ORDER CDR QPL MIL-PRF-55681 PARTS

(See spec on DLA website.)

CDR01		BX		472		B		K		M		S	
Military Size & Style 0805		Dielectric Code VTC = +15% / -25%		Capacitance Code 4700pF (see page 14)		Rated Voltage 100V		Capacitance Tolerance ± 10%		Termination Finish PdAg		Product Level Code Failure Rate S = 0.001% per 1000 hrs.	
MIL-PRF-55681 Style	Case Size	Dielectric Codes	Voltage Temp. Limits	Voltage Codes	Rated Voltage	Tolerance Codes	Cap. Tolerance	Termination Finish Codes	Finish	Prod. Level Codes	Failure Rate		
01	0805	BP	0 ± 30ppm/°C	A	50 V	F	± 1%	M	Palladium/silver alloy	C	non-ER		
02	1805	BX	+15% / -25%	B	100 V	G	± 2%	N	Silver - nickel - gold	M	1% per 1000 hrs.		
03	1808						J	± 5%	S	Solder coated final w/min. of 3% lead	P	0.1% per 1000 hrs.	
04	1812					K	± 10%	T	Silver	R	0.01% per 1000 hrs.		
05	1825					M	± 20%	U	Base metalization - nickel - solder coated (tin/lead alloy, w/min. 3% lead)	S	0.001% per 1000 hrs.		
06	2225							Z	Base metalization - nickel - solder plated (tin/lead alloy, w/min. 3% lead)				
31	0805												
32	1206												
33	1209												
34	1812												
35	1725												

Capacitance Codes			
Two significant figures followed by the number of zeros. Examples:			
0R1 = 0.1 pF	102 = 1000 p		
1R0 = 1.0 pF	103 = .01 μF		
100 = 10 pF	104 = .10 μF		
101 = 100 pF	105 = 1.0 μF		

For information on CDR 11, 12, 13, & 14, please consult our [Pages from the NPO Capacitor 7100 Catalog](#).

# HOW TO ORDER M123 QPL PARTS

(See spec on DLA website.)

M123A		10		BX		B		103		K		Z	
Performance Spec. No. & Modification		Slash Sheet No.		Dielectric Code VTC = +15% / -25%		Voltage Code 50V		Capacitance Code 0.01μF (see page 15)		Cap. Tolerance Code ± 10%		Termination Finish Ni/SnPb	
MIL-PRF-123 Slash Sheet	Case Size	Dielectric Codes	Voltage Temp. Limits	Voltage Codes	Rated Voltage	Tolerance Codes	Cap. Tolerance	Termination Finish Codes	Finish				
10	0805	BP	0 ± 30ppm/°C	B	50 V	B	± 0.1 pF	G	Silver - nickel - gold				
11	1210	BX	+15 / -25%	C	100 V	C	± 0.25 pF	M	Palladium/silver alloy				
12	1808							D	± 0.5 pF	S	Silver - Nickel - Solder coated		
13	2225					F	± 1%	Z	Silver - Nickel - Solder plated				
21	1206					G	± 2%						
22	1812					J	± 5%						
23	1825					K	± 10%						
						M	± 20%						

Capacitance Codes			
Two significant figures followed by the number of zeros. Examples:			
0R1 = 0.1 pF	102 = 1000 p		
1R0 = 1.0 pF	103 = .01 μF		
100 = 10 pF	104 = .10 μF		
101 = 100 pF	105 = 1.0 μF		

Note: Tin/lead alloy with a minimum of 3 percent lead for termination finish S and Z

## ELECTRICAL CHARACTERISTICS

Dielectric Type	Rated Voltage (V)	Temperature Coefficient (TC) from -55° to +125°C Bias = 0 Volt	Temperature Voltage Coefficient (VTC) from -55° to +125°C Bias = Rated Voltage
NPO	ALL	± 30 PPM	NOT SPECIFIED
BP	ALL	± 30 PPM	± 30 PPM
BX	25/50/100	±15%	+15, -25%
BR	200	±15%	+15, -40%
BQ	500	±15%	+15, -50%
X7R	ALL	±15%	NOT SPECIFIED

## STORAGE RECOMMENDATIONS

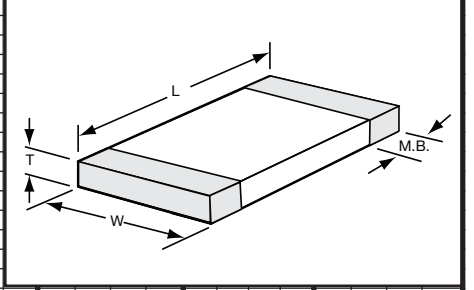
**MOISTURE SENSITIVITY LEVEL:** MSL1  
**ESD SENSITIVITY:** NONE  
**RECOMMENDED STORAGE CONDITIONS (for unmounted parts):**  
 Ceramic capacitors should be stored indoors, in their original packaging, in a controlled temperature of 5 to 30°C (41 to 86°F) and a relative humidity below 60%. We recommend checking the solderability after 12 months of storage.



# MIL-PRF-55681 CDR CHIP CAPACITORS

(Consult DLA website for the latest revision)

SIZE/MIL-PRF-55681	0805/CDR01			1805/CDR02			1808/CDR03			1812/CDR04			1825/CDR05			2225/CDR06		0805/CDR31				1206/CDR32				1210/CDR33				1812/CDR34				1825/CDR36			
DIELECTRIC	BP	BX	BX	BP	BX	BX	BP	BX	BX	BP	BX	BX	BP	BX	BX	BP	BX	BP	BP	BX	BX	BP	BP	BX	BX	BP	BP	BX	BX	BP	BP	BX	BX	BP	BP	BX	BX
WVDC	100	100	50	100	100	50	100	100	50	100	100	50	100	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
pF / $\mu$ F	CODE																																				
See CDR31&32 Note			Lower Cap Values Available: 1.0 to 9.1 pF																																		
10	100																																				
11	110																																				
12	120																																				
13	130																																				
15	150																																				
16	160																																				
18	180																																				
20	200																																				
22	220																																				
24	240																																				
27	270																																				
30	300																																				
33	330																																				
36	360																																				
39	390																																				
43	430																																				
47	470																																				
51	510																																				
56	560																																				
62	620																																				
68	680																																				
75	750																																				
82	820																																				
91	910																																				
100	101																																				
110	111																																				
120	121																																				
130	131																																				
150	151																																				
160	161																																				
180	181																																				
200	201																																				
220	221																																				
240	241																																				
270	271																																				
300	301																																				
330	331																																				
360	361																																				
390	391																																				
430	431																																				
470	471																																				
510	511																																				
560	561																																				
620	621																																				
680	681																																				
750	751																																				
820	821																																				
910	911																																				
1000	102																																				
1100	112																																				
1200	122																																				
1300	132																																				
1500	152																																				
1600	162																																				
1800	182																																				
2000	202																																				
2200	222																																				
2400	242																																				
2700	272																																				
3000	302																																				
3300	332																																				
3600	362																																				
3900	392																																				
4300	432																																				
4700	472																																				
5100	512																																				
5600	562																																				
6200	622																																				
6800	682																																				
7500	752																																				
8200	822																																				
9100	912																																				
0.010	103																																				
0.011	113																																				
0.012	123																																				
0.013	133																																				
0.015	153																																				
0.016	163																																				
0.018	183																																				
0.020	203																																				
0.022	223																																				
0.027	273																																				
0.033	333																																				
0.039	393																																				
0.047	473																																				
0.056	563																																				
0.068	683																																				
0.082	823																																				
0.10	104																																				
0.12	124																																				
0.15	154																																				
0.18	184																																				
0.22	224																																				
0.27	274																																				
0.33	334																																				
0.39	394																																				
0.47	474																																				



For information on CDR 11, 12, 13, & 14, please consult our Pages from the NPO Capacitor Catalog.

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