

# 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

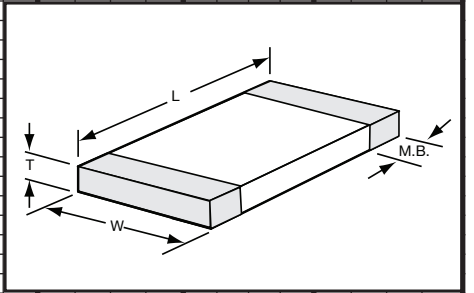
**MOISTURE SENSITIVITY LEVEL:** MSL1  
**ESD SENSITIVITY:** NONE  
**RECOMMENDED STORAGE CONDITIONS (for unmounted parts):**  
 Ceramic capacitors should be stored indoors, in their original packaging, in a controlled temperature of 5 to 30°C (41 to 86°F) and a relative humidity below 60%. We recommend 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/CDR35					
	DIELECTRIC		BP	BX	BX	BP	BX	BX	BP	BX	BX	BP	BX	BX	BP	BX	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.

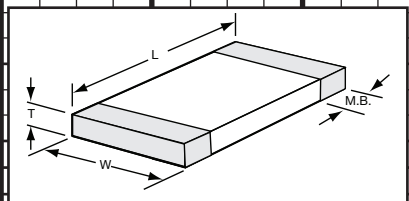
$\mu$ F starts

# MIL-PRF-123 CKS CHIP CAPACITORS

(Consult DLA website for the latest revision)

SIZE		0805		1206		SIZE		0805		1206		1210		1808		1812		1825		2225	
SLASH SHEET:		10E		21D		SLASH SHEET:		10E		21D		11F		12E		22D		23C		13F	
M123		CKS51		CKS55		M123		CKS51		CKS55		CKS52		CKS53		CKS56		CKS57		CKS54	
L inch (mm)		0.080 (2.03)		0.126 (3.20)		L inch (mm)		0.080 (2.03)		0.126 (3.20)		0.120 (3.05)		0.180 (4.57)		0.180 (4.57)		0.180 (4.57)		0.225 (5.72)	
W inch (mm)		0.065 (1.27)		0.063 (1.60)		W inch (mm)		0.065 (1.27)		0.063 (1.60)		0.100 (2.54)		0.080 (2.03)		0.125 (3.18)		0.255 (6.35)		0.250 (6.35)	
T MAX. inch (mm)		0.055 (1.40)		0.059 (1.50)		T MAX. inch (mm)		0.055 (1.40)		0.059 (1.50)		0.065 (1.65)		0.065 (1.65)		0.080 (2.03)		0.080 (2.03)		0.070 (1.78)	
M.B. inch (mm)		0.020 (0.51)		0.020 (0.51)		M.B. inch (mm)		0.020 (0.51)		0.020 (0.51)		0.020 (0.51)		0.020 (0.51)		0.020 (0.51)		0.020 (0.51)		0.020 (0.51)	
DIELECTRIC		BP BP		BP BP		DIELECTRIC		BP BP BX BX		BP BP BX BX		BP BP BX BX		BP BP BX BX		BP BP BX BX		BP BP BX BX		BP BX	
WVDC		100 50		100 50		WVDC		100 50 100 50		100 50 100 50		100 50 100 50		100 50 100 50		100 50 100 50		100 50 100 50		50 50	
pF	CODE					pF/μF	CODE														
1.0	1R0					300	301														
1.1	1R1					330	331														
1.2	1R2					360	361														
1.3	1R3					390	391														
1.5	1R5					430	431														
1.6	1R6					470	471														
1.8	1R8					510	511														
2.0	2R0					560	561														
2.2	2R2					620	621														
2.4	2R4					680	681														
2.7	2R7					750	751														
3.0	3R0					820	821														
3.3	3R3					910	911														
3.6	3R6					1000	102														
3.9	3R9					1100	112														
4.3	4R3					1200	122														
4.7	4R7					1300	132														
5.1	5R1					1500	152														
5.6	5R6					1600	162														
6.2	6R2					1800	182														
6.8	6R8					2000	202														
7.5	7R5					2200	222														
8.2	8R2					2400	242														
9.1	9R1					2700	272														
10	100					3000	302														
11	110					3300	332														
12	120					3600	362														
13	130					3900	392														
15	150					4300	432														
16	160					4700	472														
18	180					5100	512														
20	200					5600	562														
22	220					6200	622														
24	240					6800	682														
27	270					7500	752														
30	300					8200	822														
33	330					9100	912														
39	390					0.010	103														
43	430					0.011	113														
47	470					0.012	123														
51	510					0.013	133														
56	560					0.015	153														
62	620					0.016	163														
68	680					0.018	183														
75	750					0.020	203														
82	820					0.022	223														
91	910					0.027	273														
100	101					0.033	333														
110	111					0.039	393														
120	121					0.047	473														
130	131					0.056	563														
150	151					0.068	683														
160	161					0.082	823														
180	181					0.10	104														
200	201					0.12	124														
220	221					0.15	154														
240	241					0.18	184														
270	271					0.22	224														
						0.27	274														
						0.33	334														
						0.39	394														
						0.47	474														
						1	105														

μF starts  
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## HOW TO ORDER A QPL MIL-PRF-123 PART (See spec on DLA website. Example: M123B10BXB103KZ)

M123A	10	BX	B	103	K	Z
Performance Spec. No.	Slash Sheet No.	Dielectric Code VTC = +15% / -40%	Voltage Code 50 V	Capacitance 0.01 μF	Tolerance Code ± 10%	Termination Finish Ni/SnPb