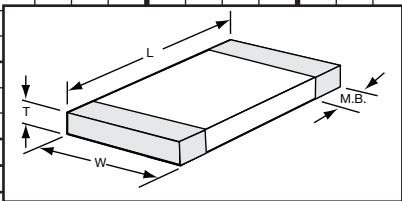


MIL-PRF-123 CKS CHIP CAPACITORS

(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															



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

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	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				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												

For information on CDR 11, 12, 13, & 14, please consult our [Pages from the NPO Capacitor 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	Guarded, solder coated		
13	2225	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				F	± 1%	Z	Base metalization - barrier-solder plated (tin/lead alloy w/min. of 4% lead)				
21	1206									G	± 2%		
22	1812					J	± 5%						
23	1825					K	± 10%						
						M	± 20%						

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.

