

# MIL-PRF-55681/Chips

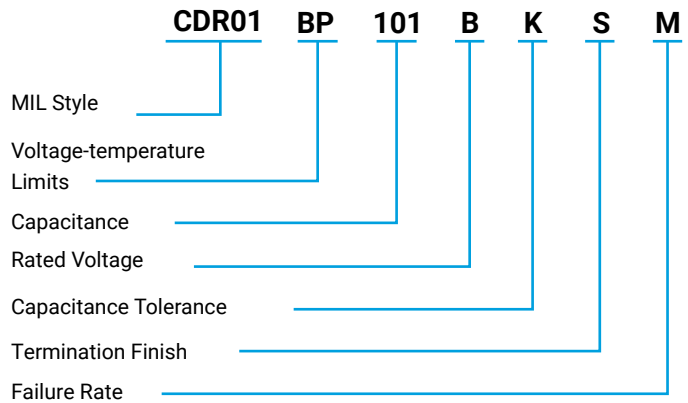
## Part Number Example

### CDR01 thru CDR06



#### MILITARY DESIGNATION PER MIL-PRF-55681

##### Part Number Example



NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.

**MIL Style:** CDR01, CDR02, CDR03, CDR04, CDR05, CDR06

#### Voltage Temperature Limits:

BP =  $0 \pm 30$  ppm/°C without voltage;  $0 \pm 30$  ppm/°C with rated voltage from -55°C to +125°C

BX =  $\pm 15\%$  without voltage; +15 -25% with rated voltage from -55°C to +125°C

**Capacitance:** Two digit figures followed by multiplier (number of zeros to be added) e.g., 101 = 100 pF

**Rated Voltage:** A = 50V, B = 100V

**Capacitance Tolerance:** J  $\pm 5\%$ , K  $\pm 10\%$ , M  $\pm 20\%$

#### Termination Finish:

- M = Palladium silver
- N = Silver-nickel-gold
- S = Solder coated final with a minimum of 4 percent lead
- T = Silver
- U = Base metallization-barrier metal-solder coated (tin/lead alloy, with a minimum of 4 percent lead)
- W = Base metallization-barrier metal-tinned (tin or tin/lead alloy)
- Y = Base metallization-barrier metal-tin (100 percent)
- Z = Base metallization-barrier metal-tinned (tin/lead alloy, with a minimum of 4 percent lead)

\*See MIL-PRF-55681 Specification for more details

**Failure Rate Level:** M = 1.0%, P = .1%, R = .01%, S = .001%

**Packaging:** Bulk is standard packaging. Tape and reel per RS481 is available upon request.

**\*Not RoHS Compliant**

#### CROSS REFERENCE: MIL-PRF-55681/CDR01 THRU CDR06\*

Per MIL-PRF-55681	Style	Length (L)	Width (W)	Thickness (T)		D		Termination Band (t)	
				Min.	Max.	Min.	Max.	Min.	Max.
CDR01	0805	.080 ± .015	.050 ± .015	.022	.055	.030	—	.010	—
CDR02	1805	.180 ± .015	.050 ± .015	.022	.055	—	—	.010	.030
CDR03	1808	.180 ± .015	.080 ± .018	.022	.080	—	—	.010	.030
CDR04	1812	.180 ± .015	.125 ± .015	.022	.080	—	—	.010	.030
CDR05	1825	.180 <sup>+.020</sup> <sub>-.015</sub>	.250 <sup>+.020</sup> <sub>-.015</sub>	.020	.080	—	—	.010	.030
CDR06	2225	.225 ± .020	.250 ± .020	.020	.080	—	—	.010	.030

\*For CDR11, 12, 13, and 14 see KYOCERA AVX Microwave Chip Capacitor Catalog

## Military Part Number Identification CDR01 thru CDR06

### CDR01 thru CDR06 to MIL-PRF-55681

Military Type Designation	Capacitance in pF	Capacitance tolerance	Rated temperature and voltage-temperature limits	WVDC
<b>Style 0805/CDR01</b>				
CDR01BP100B--	10	J,K	BP	100
CDR01BP120B--	12	J	BP	100
CDR01BP150B--	15	J,K	BP	100
CDR01BP180B--	18	J	BP	100
CDR01BP220B--	22	J,K	BP	100
CDR01BP270B--	27	J	BP	100
CDR01BP330B--	33	J,K	BP	100
CDR01BP390B--	39	J	BP	100
CDR01BP470B--	47	J,K	BP	100
CDR01BP560B--	56	J	BP	100
CDR01BP680B--	68	J,K	BP	100
CDR01BP820B--	82	J	BP	100
CDR01BP101B--	100	J,K	BP	100
CDR01B--121B--	120	J,K	BP,BX	100
CDR01B--151B--	150	J,K	BP,BX	100
CDR01B--181B--	180	J,K	BP,BX	100
CDR01BX221B--	220	K,M	BX	100
CDR01BX271B--	270	K	BX	100
CDR01BX331B--	330	K,M	BX	100
CDR01BX391B--	390	K	BX	100
CDR01BX471B--	470	K,M	BX	100
CDR01BX561B--	560	K	BX	100
CDR01BX681B--	680	K,M	BX	100
CDR01BX821B--	820	K	BX	100
CDR01BX102B--	1000	K,M	BX	100
CDR01BX122B--	1200	K	BX	100
CDR01BX152B--	1500	K,M	BX	100
CDR01BX182B--	1800	K	BX	100
CDR01BX222B--	2200	K,M	BX	100
CDR01BX272B--	2700	K	BX	100
CDR01BX332B--	3300	K,M	BX	100
CDR01BX392A--	3900	K	BX	50
CDR01BX472A--	4700	K,M	BX	50
<b>Style 1805/CDR02</b>				
CDR02BP221B--	220	J,K	BP	100
CDR02BP271B--	270	J	BP	100
CDR02BX392B--	3900	K	BX	100
CDR02BX472B--	4700	K,M	BX	100
CDR02BX562B--	5600	K	BX	100
CDR02BX682B--	6800	K,M	BX	100
CDR02BX822B--	8200	K	BX	100
CDR02BX103B--	10,000	K,M	BX	100
CDR02BX123A--	12,000	K	BX	50
CDR02BX153A--	15,000	K,M	BX	50
CDR02BX183A--	18,000	K	BX	50
CDR02BX223A--	22,000	K,M	BX	50

- Add appropriate failure rate
- Add appropriate termination finish
- Capacitance Tolerance

Military Type Designation/	Capacitance in pF	Capacitance tolerance	Rated temperature and voltage-temperature limits	WVDC
<b>Style 1808/CDR03</b>				
CDR03BP331B--	330	J,K	BP	100
CDR03BP391B--	390	J	BP	100
CDR03BP471B--	470	J,K	BP	100
CDR03BP561B--	560	J	BP	100
CDR03BP681B--	680	J,K	BP	100
CDR03BP821B--	820	J	BP	100
CDR03BP102B--	1000	J,K	BP	100
CDR03BX123B--	12,000	K	BX	100
CDR03BX153B--	15,000	K,M	BX	100
CDR03BX183B--	18,000	K	BX	100
CDR03BX223B--	22,000	K,M	BX	100
CDR03BX273B--	27,000	K	BX	100
CDR03BX333B--	33,000	K,M	BX	100
CDR03BX393A--	39,000	K	BX	50
CDR03BX473A--	47,000	K,M	BX	50
CDR03BX563A--	56,000	K	BX	50
CDR03BX683A--	68,000	K,M	BX	50
<b>Style 1812/CDR04</b>				
CDR04BP122B--	1200	J	BP	100
CDR04BP152B--	1500	J,K	BP	100
CDR04BP182B--	1800	J	BP	100
CDR04BP222B--	2200	J,K	BP	100
CDR04BP272B--	2700	J	BP	100
CDR04BP332B--	3300	J,K	BP	100
CDR04BX393B--	39,000	K	BX	100
CDR04BX473B--	47,000	K,M	BX	100
CDR04BX563B--	56,000	K	BX	100
CDR04BX823A--	82,000	K	BX	50
CDR04BX104A--	100,000	K,M	BX	50
CDR04BX124A--	120,000	K	BX	50
CDR04BX154A--	150,000	K,M	BX	50
CDR04BX184A--	180,000	K	BX	50
<b>Style 1825/CDR05</b>				
CDR05BP392B--	3900	J,K	BP	100
CDR05BP472B--	4700	J,K	BP	100
CDR05BP562B--	5600	J,K	BP	100
CDR05BX683B--	68,000	K,M	BX	100
CDR05BX823B--	82,000	K	BX	100
CDR05BX104B--	100,000	K,M	BX	100
CDR05BX124B--	120,000	K	BX	100
CDR05BX154B--	150,000	K,M	BX	100
CDR05BX224A--	220,000	K,M	BX	50
CDR05BX274A--	270,000	K	BX	50
CDR05BX334A--	330,000	K,M	BX	50
<b>Style 2225/CDR06</b>				
CDR06BP682B--	6800	J,K	BP	100
CDR06BP822B--	8200	J,K	BP	100
CDR06BP103B--	10,000	J,K	BP	100
CDR06BX394A--	390,000	K	BX	50
CDR06BX474A--	470,000	K,M	BX	50

- Add appropriate failure rate
- Add appropriate termination finish
- Capacitance Tolerance