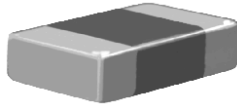


## Surface Mount Multilayer Ceramic Chip Capacitors MIL Qualified, Type CDR



### FEATURES

- Military qualified products
- Federal stock control number, CAGE CODE 95275
- High reliability tested per MIL-PRF-55681
- Tin/lead termination codes “Z” and “U”
- Lead (Pb)-free termination codes “W”, “Y”, “M”
- Surface mount, wet build process
- Reliable Noble Metal Electrode (NME) system
- Halogen-free according to IEC 61249-2-21 definition



Available  
**RoHS\***  
COMPLIANT  
HALOGEN  
**FREE**  
Available

### APPLICATIONS

- Avionic systems
- Sonar systems
- Satellite systems
- Missiles applications
- Geographical information systems
- Global positioning systems

### ELECTRICAL SPECIFICATIONS

**Note:** Electrical characteristics at + 25 °C unless otherwise specified.

**Operating Temperature:** - 55 °C to + 125 °C

**Capacitance Range:** 1.0 pF to 0.47 μF

**Voltage Rating:** 50 Vdc to 100 Vdc

**Voltage - Temperature Limits:**

**BP:** 0 ppm/°C ± 30 ppm/°C from - 55 °C to + 125 °C, with 0 Vdc applied

**BX:** ± 15 % from - 55 °C to + 125 °C, with 0 Vdc applied

**BX:** + 15 %, - 25 % from - 55 °C to + 125 °C, with 100 % rated Vdc applied

**Dissipation Factor (DF):**

**BP:** 0.15 % maximum;

**BX:** 2.5 % maximum

Test frequency:

1 MHz ± 50 kHz for BP capacitors ≤ 1000 pF

and for BX capacitors ≤ 100 pF

All other BP and BX at 1 kHz ± 50 Hz

**Aging Rate:**

**BP:** = 0 % maximum per decade

**BR, BX:** = 1 % maximum per decade

**Insulation Resistance (IR):**

At + 25 °C and rated voltage 100 000 MΩ minimum or 1000 ΩF, whichever is less

**Dielectric Strength Test:**

Performed per Method 103 of EIA-198-2-E.

Applied test voltages:

≤ 100 Vdc - rated: 200 % of rated voltage

\* Pb containing terminations are not RoHS compliant, exemptions may apply.

DIMENSIONS in inches [millimeters]						
MIL-PRF-55681	STYLE	LENGTH (L)	WIDTH (W)	MAXIMUM THICKNESS (T)	TERM. (P)	
					MINIMUM	MAXIMUM
/1	CDR01	0.080 ± 0.015 [2.03 ± 0.38]	0.050 ± 0.015 [1.27 ± 0.38]	0.055 [1.40]	0.010 [0.25]	0.030 [0.76]
	CDR02	0.180 ± 0.015 [4.57 ± 0.38]	0.050 ± 0.015 [1.27 ± 0.38]	0.055 [1.40]	0.010 [0.25]	0.030 [0.76]
	CDR03	0.180 ± 0.015 [4.57 ± 0.38]	0.080 ± 0.015 [2.03 ± 0.38]	0.080 [2.03]	0.010 [0.25]	0.030 [0.76]
	CDR04	0.180 ± 0.015 [4.57 ± 0.38]	0.125 ± 0.015 [3.20 ± 0.38]	0.080 [2.03]	0.010 [0.25]	0.030 [0.76]
/3	CDR06	0.220 ± 0.010 [5.59 ± 0.25]	0.250 ± 0.010 [6.35 ± 0.25]	0.045 [1.14]	0.010 [0.25]	0.030 [0.76]
/7	CDR31	0.078 ± 0.008 [2.00 ± 0.20]	0.049 ± 0.008 [1.25 ± 0.20]	0.051 [1.30]	0.012 [0.30]	0.028 [0.70]
/8	CDR32	0.125 ± 0.008 [3.20 ± 0.20]	0.062 ± 0.008 [1.60 ± 0.20]	0.051 [1.30]	0.012 [0.30]	0.028 [0.70]
/9	CDR33	0.125 ± 0.010 [3.20 ± 0.25]	0.098 ± 0.010 [2.50 ± 0.25]	0.059 [1.50]	0.010 [0.25]	0.030 [0.76]
/10	CDR34	0.176 ± 0.010 [4.50 ± 0.25]	0.125 ± 0.010 [3.20 ± 0.25]	0.059 [1.50]	0.010 [0.25]	0.030 [0.76]
/11	CDR35	0.176 ± 0.012 [4.50 ± 0.30]	0.250 ± 0.012 [6.40 ± 0.30]	0.059 [1.50]	0.008 [0.20]	0.032 [0.80]

ORDERING INFORMATION - MILITARY								
CDR31	BX	102	A	K	Y	S	A	T
MILITARY STYLES	DIELECTRIC	CAPACITANCE NOMINAL CODE	DC VOLTAGE RATING <sup>(1)</sup>	CAPACITANCE TOLERANCE <sup>(2)</sup>	TERMINATION <sup>(3)</sup>	FAILURE RATE	MARKING	PACKAGING
CDR01 CDR02 CDR03 CDR04 CDR06 CDR31 CDR32 CDR33 CDR34 CDR35	BP and BX	Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier. Examples: 102 = 1000 pF 1R8 = 1.8 pF	A = 50 V B = 100 V	C = ± 0.25 pF D = ± 0.5 pF F = ± 1 % J = ± 5 % K = ± 10 % M = ± 20 %	M = Silver Palladium Y = Ni barrier with 100 % tin W = Ni barrier with 100 % tin Z = Ni barrier with tin/lead plate min. 4 % lead U = Hot solder dipped (min. of 4 %)	M = 1.0 % P = 0.1 % R = 0.01 % S = 0.001 % Consult factory for failure rate status	A = Unmarked	T = 7" reel/plastic tape J = 7" reel (low quantity) C = 7" reel/paper tape R = 11 1/4" reel/plastic tape P = 11 1/4" reel/paper tape

**Notes**  
<sup>(1)</sup> DC voltage rating should not be exceeded in application  
<sup>(2)</sup> Available tolerances please see rating chart  
<sup>(3)</sup> MIL-PRF-55681 "U" Termination part number have increased dimensions

"U" TERMINATION INCREASED TOLERANCES in inches [millimeters]			
STYLE	LENGTH	WIDTH/THICKNESS	PACKAGING CODES
CDR01	0.020 [0.51]	0.015 [0.38]	"C", "J", "P", "B"
CDR02 to CDR06	0.025 [0.64]	0.015 [0.38]	"T", "J", "R", "B"
CDR31	0.023 [0.60]	0.012 [0.30]	"C", "J", "P", "B"
CDR32 to CDR36	0.023 [0.60]	0.012 [0.30]	"T", "J", "R", "B"



<b>MIL-C-55681 QUALIFIED, TYPE CDR</b>					
<b>MILITARY TYPE DESIGNATION</b>	<b>CAPACITANCE CODE</b>	<b>CAPACITANCE (pF)</b>	<b>CAPACITANCE TOLERANCE</b>	<b>RATED TEMP. AND VOLTAGE TEMP. LIMITS</b>	<b>VOLTAGE (DC)</b>
<b>CDR01BP</b>					
CDR01BP100B_ _ _	100	10	J, K	BP	100
CDR01BP120BJ_ _ _	120	12	J	BP	100
CDR01BP150B_ _ _	150	15	J, K	BP	100
CDR01BP180BJ_ _ _	180	18	J	BP	100
CDR01BP220B_ _ _	220	22	J, K	BP	100
CDR01BP270BJ_ _ _	270	27	J	BP	100
CDR01BP330B_ _ _	330	33	J, K	BP	100
CDR01BP390BJ_ _ _	390	39	J	BP	100
CDR01BP470B_ _ _	470	47	J, K	BP	100
CDR01BP560BJ_ _ _	560	56	J	BP	100
CDR01BP680B_ _ _	680	68	J, K	BP	100
CDR01BP820BJ_ _ _	820	82	J	BP	100
CDR01BP101B_ _ _	101	100	J, K	BP	100
CDR01B-121B_ _ _	121	120	J, K	BP, BX	100
CDR01B-151B_ _ _	151	150	J, K	BP, BX	100
CDR01B-181B_ _ _	181	180	J, K	BP, BX	100
<b>CDR01BX</b>					
CDR01BX221B_ _ _	221	220	K, M	BX	100
CDR01BX271BK_ _ _	271	270	K	BX	100
CDR01BX331B_ _ _	331	330	K, M	BX	100
CDR01BX391BK_ _ _	391	390	K	BX	100
CDR01BX471B_ _ _	471	470	K, M	BX	100
CDR01BX561BK_ _ _	561	560	K	BX	100
CDR01BX681B_ _ _	681	680	K, M	BX	100
CDR01BX821BK_ _ _	821	820	K	BX	100
CDR01BX102B_ _ _	102	1000	K, M	BX	100
CDR01BX122BK_ _ _	122	1200	K	BX	100
CDR01BX152B_ _ _	152	1500	K, M	BX	100
CDR01BX182BK_ _ _	182	1800	K	BX	100
CDR01BX222B_ _ _	222	2200	K, M	BX	100
CDR01BX272BK_ _ _	272	2700	K	BX	100
CDR01BX332B_ _ _	332	3300	K, M	BX	100
CDR01BX392AK_ _ _	392	3900	K	BX	50
CDR01BX472A_ _ _	472	4700	K, M	BX	50
<b>CDR02BP</b>					
CDR02BP221B_ _ _	221	220	J, K	BP	100
CDR02BP271BJ_ _ _	271	270	J	BP	100
<b>CDR02BX</b>					
CDR02BX392BK_ _ _	392	3900	K	BX	100
CDR02BX472B_ _ _	472	4700	K, M	BX	100
CDR02BX562BK_ _ _	562	5600	K	BX	100
CDR02BX682B_ _ _	682	6800	K, M	BX	100
CDR02BX822BK_ _ _	822	8200	K	BX	100
CDR02BX103B_ _ _	103	10 000	K, M	BX	100
CDR02BX123AK_ _ _	123	12 000	K	BX	50
CDR02BX153A_ _ _	153	15 000	K, M	BX	50
CDR02BX183AK_ _ _	183	18 000	K	BX	50
CDR02BX223A_ _ _	223	22 000	K, M	BX	50



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<b>MILITARY TYPE DESIGNATION</b>	<b>CAPACITANCE CODE</b>	<b>CAPACITANCE (pF)</b>	<b>CAPACITANCE TOLERANCE</b>	<b>RATED TEMP. AND VOLTAGE TEMP. LIMITS</b>	<b>VOLTAGE (DC)</b>
<b>CDR03BP</b>					
CDR03BP331B_ _ _	331	330	J, K	BP	100
CDR03BP391BJ_ _	391	390	J	BP	100
CDR03BP471B_ _ _	471	470	J, K	BP	100
CDR03BP561BJ_ _	561	560	J	BP	100
CDR03BP681B_ _ _	681	680	J, K	BP	100
CDR03BP821BJ_ _	821	820	J	BP	100
CDR03BP102B_ _ _	102	1000	J, K	BP	100
<b>CDR03BX</b>					
CDR03BX123BK_ _	123	12 000	K	BX	100
CDR03BX153B_ _ _	153	15 000	K, M	BX	100
CDR03BX183BK_ _	183	18 000	K	BX	100
CDR03BX223B_ _ _	223	22 000	K, M	BX	100
CDR03BX273BK_ _	273	27 000	K	BX	100
CDR03BX333B_ _ _	333	33 000	K, M	BX	100
CDR03BX393AK_ _	393	39 000	K	BX	50
CDR03BX473A_ _ _	473	47 000	K, M	BX	50
CDR03BX563AK_ _	563	56 000	K	BX	50
CDR03BX683A_ _ _	683	68 000	K, M	BX	50
<b>CDR04BP</b>					
CDR04BP122BJ_ _	122	1200	J	BP	100
CDR04BP152B_ _ _	152	1500	J, K	BP	100
CDR04BP182BJ_ _	182	1800	J	BP	100
CDR04BP222B_ _ _	222	2200	J, K	BP	100
CDR04BP272BJ_ _	272	2700	J	BP	100
CDR04BP332B_ _ _	332	3300	J, K	BP	100
<b>CDR04BX</b>					
CDR04BX393BK_ _	393	39 000	K	BX	100
CDR04BX473B_ _ _	473	47 000	K, M	BX	100
CDR04BX563BK_ _	563	56 000	K	BX	100
CDR04BX823AK_ _	823	82 000	K	BX	50
CDR04BX104A_ _ _	104	100 000	K, M	BX	50
CDR04BX124AK_ _	124	120 000	K	BX	50
CDR04BX154A_ _ _	154	150 000	K, M	BX	50
CDR04BX184AK_ _	184	180 000	K	BX	50
<b>CDR06BX</b>					
CDR06BX394AK_ _	394	390 000	K	BX	50
CDR06BX474A_ _ _	474	470 000	K, M	BX	50
<b>CDR31BP</b>					
CDR31BP1R0B_ _ _	1R0	1	C	BP	100
CDR31BP1R1B_ _ _	1R1	1.1	C	BP	100
CDR31BP1R2B_ _ _	1R2	1.2	C	BP	100
CDR31BP1R3B_ _ _	1R3	1.3	C	BP	100
CDR31BP1R5B_ _ _	1R5	1.5	C	BP	100
CDR31BP1R6B_ _ _	1R6	1.6	C	BP	100
CDR31BP1R8B_ _ _	1R8	1.8	C	BP	100
CDR31BP2R0B_ _ _	2R0	2	C	BP	100
CDR31BP2R2B_ _ _	2R2	2.2	C	BP	100
CDR31BP2R4B_ _ _	2R4	2.4	C	BP	100
CDR31BP2R7B_ _ _	2R7	2.7	C, D	BP	100
CDR31BP3R0B_ _ _	3R0	3	C, D	BP	100
CDR31BP3R3B_ _ _	3R3	3.3	C, D	BP	100



<b>MIL-C-55681 QUALIFIED, TYPE CDR</b>					
<b>MILITARY TYPE DESIGNATION</b>	<b>CAPACITANCE CODE</b>	<b>CAPACITANCE (pF)</b>	<b>CAPACITANCE TOLERANCE</b>	<b>RATED TEMP. AND VOLTAGE TEMP. LIMITS</b>	<b>VOLTAGE (DC)</b>
<b>CDR31BP</b>					
CDR31BP3R6B_ _ _	3R6	3.6	C, D	BP	100
CDR31BP3R9B_ _ _	3R9	3.9	C, D	BP	100
CDR31BP4R3B_ _ _	4R3	4.3	C, D	BP	100
CDR31BP4R7B_ _ _	4R7	4.7	C, D	BP	100
CDR31BP5R1B_ _ _	5R1	5.1	C, D	BP	100
CDR31BP5R6B_ _ _	5R6	5.6	C, D	BP	100
CDR31BP6R2B_ _ _	6R2	6.2	C, D	BP	100
CDR31BP6R8B_ _ _	6R8	6.8	C, D	BP	100
CDR31BP7R5B_ _ _	7R5	7.5	C, D	BP	100
CDR31BP8R2B_ _ _	8R2	8.2	C, D	BP	100
CDR31BP9R1B_ _ _	9R1	9.1	C, D	BP	100
CDR31BP100B_ _ _	100	10	F, J, K	BP	100
CDR31BP110B_ _ _	110	11	F, J, K	BP	100
CDR31BP120B_ _ _	120	12	F, J, K	BP	100
CDR31BP130B_ _ _	130	13	F, J, K	BP	100
CDR31BP150B_ _ _	150	15	F, J, K	BP	100
CDR31BP160B_ _ _	160	16	F, J, K	BP	100
CDR31BP180B_ _ _	180	18	F, J, K	BP	100
CDR31BP200B_ _ _	200	20	F, J, K	BP	100
CDR31BP220B_ _ _	220	22	F, J, K	BP	100
CDR31BP240B_ _ _	240	24	F, J, K	BP	100
CDR31BP270B_ _ _	270	27	F, J, K	BP	100
CDR31BP300B_ _ _	300	30	F, J, K	BP	100
CDR31BP330B_ _ _	330	33	F, J, K	BP	100
CDR31BP360B_ _ _	360	36	F, J, K	BP	100
CDR31BP390B_ _ _	390	39	F, J, K	BP	100
CDR31BP430B_ _ _	430	43	F, J, K	BP	100
CDR31BP470B_ _ _	470	47	F, J, K	BP	100
CDR31BP510B_ _ _	510	51	F, J, K	BP	100
CDR31BP560B_ _ _	560	56	F, J, K	BP	100
CDR31BP620B_ _ _	620	62	F, J, K	BP	100
CDR31BP680B_ _ _	680	68	F, J, K	BP	100
CDR31BP750B_ _ _	750	75	F, J, K	BP	100
CDR31BP820B_ _ _	820	82	F, J, K	BP	100
CDR31BP910B_ _ _	910	91	F, J, K	BP	100
CDR31BP101B_ _ _	101	100	F, J, K	BP	100
CDR31BP111B_ _ _	111	110	F, J, K	BP	100
CDR31BP121B_ _ _	121	120	F, J, K	BP	100
CDR31BP131B_ _ _	131	130	F, J, K	BP	100
CDR31BP151B_ _ _	151	150	F, J, K	BP	100
CDR31BP161B_ _ _	161	160	F, J, K	BP	100
CDR31BP181B_ _ _	181	180	F, J, K	BP	100
CDR31BP201B_ _ _	201	200	F, J, K	BP	100
CDR31BP221B_ _ _	221	220	F, J, K	BP	100
CDR31BP241B_ _ _	241	240	F, J, K	BP	100
CDR31BP271B_ _ _	271	270	F, J, K	BP	100
CDR31BP301B_ _ _	301	300	F, J, K	BP	100
CDR31BP331B_ _ _	331	330	F, J, K	BP	100
CDR31BP361B_ _ _	361	360	F, J, K	BP	100
CDR31BP391B_ _ _	391	390	F, J, K	BP	100
CDR31BP431B_ _ _	431	430	F, J, K	BP	100
CDR31BP471B_ _ _	471	470	F, J, K	BP	100
CDR31BP511A_ _ _	511	510	F, J, K	BP	50
CDR31BP561A_ _ _	561	560	F, J, K	BP	50
CDR31BP621A_ _ _	621	620	F, J, K	BP	50
CDR31BP681A_ _ _	681	680	F, J, K	BP	50



<b>MIL-C-55681 QUALIFIED, TYPE CDR</b>					
<b>MILITARY TYPE DESIGNATION</b>	<b>CAPACITANCE CODE</b>	<b>CAPACITANCE (pF)</b>	<b>CAPACITANCE TOLERANCE</b>	<b>RATED TEMP. AND VOLTAGE TEMP. LIMITS</b>	<b>VOLTAGE (DC)</b>
<b>CDR31BX</b>					
CDR31BX471B_ _ _	471	470	K, M	BX	100
CDR31BX561B_ _ _	561	560	K, M	BX	100
CDR31BX681B_ _ _	681	680	K, M	BX	100
CDR31BX821B_ _ _	821	820	K, M	BX	100
CDR31BX102B_ _ _	102	1000	K, M	BX	100
CDR31BX122B_ _ _	122	1200	K, M	BX	100
CDR31BX152B_ _ _	152	1500	K, M	BX	100
CDR31BX182B_ _ _	182	1800	K, M	BX	100
CDR31BX222B_ _ _	222	2200	K, M	BX	100
CDR31BX272B_ _ _	272	2700	K, M	BX	100
CDR31BX332B_ _ _	332	3300	K, M	BX	100
CDR31BX392B_ _ _	392	3900	K, M	BX	100
CDR31BX472B_ _ _	472	4700	K, M	BX	100
CDR31BX562A_ _ _	562	5600	K, M	BX	50
CDR31BX682A_ _ _	682	6800	K, M	BX	50
CDR31BX822A_ _ _	822	8200	K, M	BX	50
CDR31BX103A_ _ _	103	10 000	K, M	BX	50
CDR31BX123A_ _ _	123	12 000	K, M	BX	50
CDR31BX153A_ _ _	153	15 000	K, M	BX	50
CDR31BX183A_ _ _	183	18 000	K, M	BX	50
<b>CDR32BP</b>					
CDR32BP1R0B_ _ _	1R0	1	C	BP	100
CDR32BP1R1B_ _ _	1R1	1.1	C	BP	100
CDR32BP1R2B_ _ _	1R2	1.2	C	BP	100
CDR32BP1R3B_ _ _	1R3	1.3	C	BP	100
CDR32BP1R5B_ _ _	1R5	1.5	C	BP	100
CDR32BP1R6B_ _ _	1R6	1.6	C	BP	100
CDR32BP1R8B_ _ _	1R8	1.8	C	BP	100
CDR32BP2R0B_ _ _	2R0	2	C	BP	100
CDR32BP2R2B_ _ _	2R2	2.2	C	BP	100
CDR32BP2R4B_ _ _	2R4	2.4	C	BP	100
CDR32BP2R7B_ _ _	2R7	2.7	C, D	BP	100
CDR32BP3R0B_ _ _	3R0	3	C, D	BP	100
CDR32BP3R3B_ _ _	3R3	3.3	C, D	BP	100
CDR32BP3R6B_ _ _	3R6	3.6	C, D	BP	100
CDR32BP3R9B_ _ _	3R9	3.9	C, D	BP	100
CDR32BP4R3B_ _ _	4R3	4.3	C, D	BP	100
CDR32BP4R7B_ _ _	4R7	4.7	C, D	BP	100
CDR32BP5R1B_ _ _	5R1	5.1	C, D	BP	100
CDR32BP5R6B_ _ _	5R6	5.6	C, D	BP	100
CDR32BP6R2B_ _ _	6R2	6.2	C, D	BP	100
CDR32BP6R8B_ _ _	6R8	6.8	C, D	BP	100
CDR32BP7R5B_ _ _	7R5	7.5	C, D	BP	100
CDR32BP8R2B_ _ _	8R2	8.2	C, D	BP	100
CDR32BP9R1B_ _ _	9R1	9.1	C, D	BP	100
CDR32BP100B_ _ _	100	10	F, J, K	BP	100
CDR32BP110B_ _ _	110	11	F, J, K	BP	100
CDR32BP120B_ _ _	120	12	F, J, K	BP	100
CDR32BP130B_ _ _	130	13	F, J, K	BP	100
CDR32BP150B_ _ _	150	15	F, J, K	BP	100
CDR32BP160B_ _ _	160	16	F, J, K	BP	100



<b>MIL-C-55681 QUALIFIED, TYPE CDR</b>					
<b>MILITARY TYPE DESIGNATION</b>	<b>CAPACITANCE CODE</b>	<b>CAPACITANCE (pF)</b>	<b>CAPACITANCE TOLERANCE</b>	<b>RATED TEMP. AND VOLTAGE TEMP. LIMITS</b>	<b>VOLTAGE (DC)</b>
<b>CDR32BP</b>					
CDR32BP180B_ _ _	180	18	F, J, K	BP	100
CDR32BP200B_ _ _	200	20	F, J, K	BP	100
CDR32BP220B_ _ _	220	22	F, J, K	BP	100
CDR32BP240B_ _ _	240	24	F, J, K	BP	100
CDR32BP270B_ _ _	270	27	F, J, K	BP	100
CDR32BP300B_ _ _	300	30	F, J, K	BP	100
CDR32BP330B_ _ _	330	33	F, J, K	BP	100
CDR32BP360B_ _ _	360	36	F, J, K	BP	100
CDR32BP390B_ _ _	390	39	F, J, K	BP	100
CDR32BP430B_ _ _	430	43	F, J, K	BP	100
CDR32BP470B_ _ _	470	47	F, J, K	BP	100
CDR32BP510B_ _ _	510	51	F, J, K	BP	100
CDR32BP560B_ _ _	560	56	F, J, K	BP	100
CDR32BP620B_ _ _	620	62	F, J, K	BP	100
CDR32BP680B_ _ _	680	68	F, J, K	BP	100
CDR32BP750B_ _ _	750	75	F, J, K	BP	100
CDR32BP820B_ _ _	820	82	F, J, K	BP	100
CDR32BP910B_ _ _	910	91	F, J, K	BP	100
CDR32BP101B_ _ _	101	100	F, J, K	BP	100
CDR32BP111B_ _ _	111	110	F, J, K	BP	100
CDR32BP121B_ _ _	121	120	F, J, K	BP	100
CDR32BP131B_ _ _	131	130	F, J, K	BP	100
CDR32BP151B_ _ _	151	150	F, J, K	BP	100
CDR32BP161B_ _ _	161	160	F, J, K	BP	100
CDR32BP181B_ _ _	181	180	F, J, K	BP	100
CDR32BP201B_ _ _	201	200	F, J, K	BP	100
CDR32BP221B_ _ _	221	220	F, J, K	BP	100
CDR32BP241B_ _ _	241	240	F, J, K	BP	100
CDR32BP271B_ _ _	271	270	F, J, K	BP	100
CDR32BP301B_ _ _	301	300	F, J, K	BP	100
CDR32BP331B_ _ _	331	330	F, J, K	BP	100
CDR32BP361B_ _ _	361	360	F, J, K	BP	100
CDR32BP391B_ _ _	391	390	F, J, K	BP	100
CDR32BP431B_ _ _	431	430	F, J, K	BP	100
CDR32BP471B_ _ _	471	470	F, J, K	BP	100
CDR32BP511B_ _ _	511	510	F, J, K	BP	100
CDR32BP561B_ _ _	561	560	F, J, K	BP	100
CDR32BP621B_ _ _	621	620	F, J, K	BP	100
CDR32BP681B_ _ _	681	680	F, J, K	BP	100
CDR32BP751B_ _ _	751	750	F, J, K	BP	100
CDR32BP821B_ _ _	821	820	F, J, K	BP	100
CDR32BP911B_ _ _	911	910	F, J, K	BP	100
CDR32BP102B_ _ _	102	1000	F, J, K	BP	100
CDR32BP112A_ _ _	112	1100	F, J, K	BP	50
CDR32BP122A_ _ _	122	1200	F, J, K	BP	50
CDR32BP132A_ _ _	132	1300	F, J, K	BP	50
CDR32BP152A_ _ _	152	1500	F, J, K	BP	50
CDR32BP162A_ _ _	162	1600	F, J, K	BP	50
CDR32BP182A_ _ _	182	1800	F, J, K	BP	50
CDR32BP202A_ _ _	202	2000	F, J, K	BP	50
CDR32BP222A_ _ _	222	2200	F, J, K	BP	50



<b>MIL-C-55681 QUALIFIED, TYPE CDR</b>					
<b>MILITARY TYPE DESIGNATION</b>	<b>CAPACITANCE CODE</b>	<b>CAPACITANCE (pF)</b>	<b>CAPACITANCE TOLERANCE</b>	<b>RATED TEMP. AND VOLTAGE TEMP. LIMITS</b>	<b>VOLTAGE (DC)</b>
<b>CDR32BX</b>					
CDR32BX472B_ _ _	472	4700	K, M	BX	100
CDR32BX562B_ _ _	562	5600	K, M	BX	100
CDR32BX682B_ _ _	682	6800	K, M	BX	100
CDR32BX822B_ _ _	822	8200	K, M	BX	100
CDR32BX103B_ _ _	103	10 000	K, M	BX	100
CDR32BX123B_ _ _	123	12 000	K, M	BX	100
CDR32BX153B_ _ _	153	15 000	K, M	BX	100
CDR32BX183A_ _ _	183	18 000	K, M	BX	50
CDR32BX223A_ _ _	223	22 000	K, M	BX	50
CDR32BX273A_ _ _	273	27 000	K, M	BX	50
CDR32BX333A_ _ _	333	33 000	K, M	BX	50
CDR32BX393A_ _ _	393	39 000	K, M	BX	50
<b>CDR33BP</b>					
CDR33BP102B_ _ _	102	1000	F, J, K	BP	100
CDR33BP112B_ _ _	112	1100	F, J, K	BP	100
CDR33BP122B_ _ _	122	1200	F, J, K	BP	100
CDR33BP132B_ _ _	132	1300	F, J, K	BP	100
CDR33BP152B_ _ _	152	1500	F, J, K	BP	100
CDR33BP162B_ _ _	162	1600	F, J, K	BP	100
CDR33BP182B_ _ _	182	1800	F, J, K	BP	100
CDR33BP202B_ _ _	202	2000	F, J, K	BP	100
CDR33BP222B_ _ _	222	2200	F, J, K	BP	100
CDR33BP242A_ _ _	242	2400	F, J, K	BP	50
CDR33BP272A_ _ _	272	2700	F, J, K	BP	50
CDR33BP302A_ _ _	302	3000	F, J, K	BP	50
CDR33BP332A_ _ _	332	3300	F, J, K	BP	50
<b>CDR33BX</b>					
CDR33BX153B_ _ _	153	15 000	K, M	BX	100
CDR33BX183B_ _ _	183	18 000	K, M	BX	100
CDR33BX223B_ _ _	223	22 000	K, M	BX	100
CDR33BX273B_ _ _	273	27 000	K, M	BX	100
CDR33BX393A_ _ _	393	39 000	K, M	BX	50
CDR33BX473A_ _ _	473	47 000	K, M	BX	50
CDR33BX563A_ _ _	563	56 000	K, M	BX	50
CDR33BX683A_ _ _	683	68 000	K, M	BX	50
CDR33BX823A_ _ _	823	82 000	K, M	BX	50
CDR33BX104A_ _ _	104	100 000	K, M	BX	50
<b>CDR34BP</b>					
CDR34BP222B_ _ _	222	2200	F, J, K	BP	100
CDR34BP242B_ _ _	242	2400	F, J, K	BP	100
CDR34BP272B_ _ _	272	2700	F, J, K	BP	100
CDR34BP302B_ _ _	302	3000	F, J, K	BP	100
CDR34BP332B_ _ _	332	3300	F, J, K	BP	100
CDR34BP362B_ _ _	362	3600	F, J, K	BP	100
CDR34BP392B_ _ _	392	3900	F, J, K	BP	100
CDR34BP432B_ _ _	432	4300	F, J, K	BP	100
CDR34BP472B_ _ _	472	4700	F, J, K	BP	100
CDR34BP512A_ _ _	512	5100	F, J, K	BP	50
CDR34BP562A_ _ _	562	5600	F, J, K	BP	50
CDR34BP622A_ _ _	622	6200	F, J, K	BP	50
CDR34BP682A_ _ _	682	6800	F, J, K	BP	50
CDR34BP752A_ _ _	752	7500	F, J, K	BP	50
CDR34BP822A_ _ _	822	8200	F, J, K	BP	50
CDR34BP912A_ _ _	912	9100	F, J, K	BP	50
CDR34BP103A_ _ _	103	10 000	F, J, K	BP	50





<b>MIL-C-55681 QUALIFIED, TYPE CDR</b>					
<b>MILITARY TYPE DESIGNATION</b>	<b>CAPACITANCE CODE</b>	<b>CAPACITANCE (pF)</b>	<b>CAPACITANCE TOLERANCE</b>	<b>RATED TEMP. AND VOLTAGE TEMP. LIMITS</b>	<b>VOLTAGE (DC)</b>
<b>CDR34BX</b>					
CDR34BX273B_ _ _	273	27 000	K, M	BX	100
CDR34BX333B_ _ _	333	33 000	K, M	BX	100
CDR34BX393B_ _ _	393	39 000	K, M	BX	100
CDR34BX473B_ _ _	473	47 000	K, M	BX	100
CDR34BX563B_ _ _	563	56 000	K, M	BX	100
CDR34BX104A_ _ _	104	100 000	K, M	BX	50
CDR34BX124A_ _ _	124	120 000	K, M	BX	50
CDR34BX154A_ _ _	154	150 000	K, M	BX	50
CDR34BX184A_ _ _	184	180 000	K, M	BX	50
<b>CDR35BP</b>					
CDR35BP472B_ _ _	472	4700	F, J, K	BP	100
CDR35BP512B_ _ _	512	5100	F, J, K	BP	100
CDR35BP562B_ _ _	562	5600	F, J, K	BP	100
CDR35BP622B_ _ _	622	6200	F, J, K	BP	100
CDR35BP682B_ _ _	682	6800	F, J, K	BP	100
CDR35BP752B_ _ _	752	7500	F, J, K	BP	100
CDR35BP822B_ _ _	822	8200	F, J, K	BP	100
CDR35BP912B_ _ _	912	9100	F, J, K	BP	100
CDR35BP103B_ _ _	103	10 000	F, J, K	BP	100
CDR35BP113A_ _ _	113	11 000	F, J, K	BP	50
CDR35BP123A_ _ _	123	12 000	F, J, K	BP	50
CDR35BP133A_ _ _	133	13 000	F, J, K	BP	50
CDR35BP153A_ _ _	153	15 000	F, J, K	BP	50
CDR35BP163A_ _ _	163	16 000	F, J, K	BP	50
CDR35BP183A_ _ _	183	18 000	F, J, K	BP	50
CDR35BP203A_ _ _	203	20 000	F, J, K	BP	50
CDR35BP223A_ _ _	223	22 000	F, J, K	BP	50
<b>CDR35BX</b>					
CDR35BX563B_ _ _	563	56 000	K, M	BX	100
CDR35BX683B_ _ _	683	68 000	K, M	BX	100
CDR35BX823B_ _ _	823	82 000	K, M	BX	100
CDR35BX104B_ _ _	104	100 000	K, M	BX	100
CDR35BX124B_ _ _	124	120 000	K, M	BX	100
CDR35BX154B_ _ _	154	150 000	K, M	BX	100
CDR35BX184A_ _ _	184	180 000	K, M	BX	50
CDR35BX224A_ _ _	224	220 000	K, M	BX	50
CDR35BX274A_ _ _	274	270 000	K, M	BX	50
CDR35BX334A_ _ _	334	330 000	K, M	BX	50
CDR35BX394A_ _ _	394	390 000	K, M	BX	50
CDR35BX474A_ _ _	474	470 000	K, M	BX	50



TAPE AND REEL QUANTITIES (1)(2)(3)								
			7" REEL QUANTITIES			11 1/4" AND 13" REEL QUANTITIES		BULK
STYLES	BODY SIZE	TAPE SIZE	"C"	"T"	"J"	"P"	"R"	"B"
CDR01, CDR31	0805	8 mm	3000	3000	1000	10 000	10 000	100
CDR32	1206	8 mm	N/a	3000	1000	N/a	10 000	100
CDR33	1210	8 mm	N/a	3000	1000	N/a	10 000	100
CDR02	1805	12 mm	N/a	3000	500	N/a	10 000	100
CDR03	1808	12 mm	N/a	3000	500	N/a	10 000	100
CDR04, CDR34	1812	12 mm	N/a	1000	500	N/a	5000	100
CDR35	1825	12 mm	N/a	1000	500	N/a	4000	100
CDR06	2225	12 mm	N/a	1000	500	N/a	4000	100

**Notes**

- (1) Vishay Vitramon uses embossed plastic carrier tape and punched paper carrier tape
- (2) Paper tape is not available for case sizes > 1206 or for component thickness > 0.035" [0.89 mm]-
- (3) DC voltage rating should not be exceeded in application



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