

Surface Mount Multilayer Ceramic Chip Capacitors MIL Qualified, Type CDR



FEATURES

- Military qualified products
- Federal stock control number, CAGE CODE 2770A
- High reliability tested per MIL-PRF-55681
- Tin / lead termination codes “W”, “Z”, and “U”
- Lead (Pb)-free termination codes “Y” and “M”
- Wet build process
- Reliable Noble Metal Electrode (NME) system
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



Note

* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

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 470 nF

Voltage Range: 6.3 V_{DC} to 100 V_{DC}

Temperature Coefficient of Capacitance (TCC):

BP: 0 ppm/°C ± 30 ppm/°C from -55 °C to +125 °C, with 0 V_{DC} applied
0 ppm/°C ± 30 ppm/°C from -55 °C to +125 °C, with 100 % rated V_{DC} applied

BX: ± 15 % from -55 °C to +125 °C, with 0 V_{DC} applied

BX: +15 %, -25 % from -55 °C to +125 °C, with 100 % rated V_{DC} applied

BR: ± 15 % from -55 °C to +125 °C, with 0 V_{DC} applied
+15 %, -40 % -55 °C to +125 °C, with 100 % rated V_{DC} applied

Dissipation Factor (DF):

BP: 0.15 % maximum

BX: 2.50 % maximum

BR: ≤ 25 V: 3.5 % maximum

> 25 V: 2.5 % maximum

Test frequency:

1 MHz ± 50 kHz for BP capacitors ≤ 1000 pF

and for BX capacitors ≤ 100 pF

All other BP, BX, and BR at 1 kHz ± 50 Hz

Aging Rate:

BP: 0 % maximum per decade

BX, BR: 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 V_{DC}-rated: 250 % of rated voltage



QUICK REFERENCE DATA				
DIELECTRIC	STYLE (CASE)	MAXIMUM VOLTAGE (V)	CAPACITANCE	
			MINIMUM	MAXIMUM
BP	CDR01 (0805)	100	10 pF	180 pF
BX	CDR01 (0805)	100	120 pF	4.7 nF
BP	CDR02 (1805)	100	220 pF	270 pF
BX	CDR02 (1805)	100	3.9 nF	22 nF
BP	CDR03 (1808)	100	330 pF	1.0 nF
BX	CDR03 (1808)	100	12 nF	68 nF
BP	CDR04 (1812)	100	1.2 nF	3.3 nF
BX	CDR04 (1812)	100	39 nF	180 nF
BX	CDR06 (2225)	50	390 nF	470 nF
BP	CDR31 (0805)	100	1.0 pF	680 pF
BX	CDR31 (0805)	100	470 pF	18 nF
BP	CDR32 (1206)	100	1.0 pF	2.2 nF
BX	CDR32 (1206)	100	4.7 nF	39 nF
BP	CDR33 (1210)	100	1.0 nF	3.3 nF
BX	CDR33 (1210)	100	15 nF	100 nF
BP	CDR34 (1812)	100	2.2 nF	10 nF
BX	CDR34 (1812)	100	27 nF	180 nF
BP	CDR35 (1825)	100	4.7 nF	22 nF
BX	CDR35 (1825)	100	56 nF	470 nF
BP	CDR36 (0603)	100	51 pF	1000 pF
BX	CDR36 (0603)	100	100 pF	56 nF
BR	CDR36 (0603)	100	100 pF	56 nF
BP	CDR37 (0402)	100	22 pF	150 pF
BX	CDR37 (0402)	50	100 pF	8.2 nF
BR	CDR37 (0402)	50	100 pF	10 nF

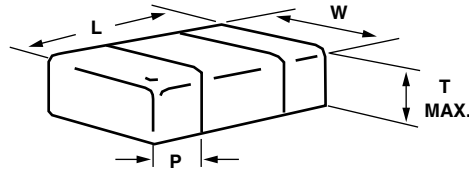
Note

- Detail ratings see selection chart

ORDERING INFORMATION - MILITARY							
CDR31	BX	102	A	K	Y	S	A T
MILITARY STYLE	DIELECTRIC	CAPACITANCE NOMINAL CODE	DC VOLTAGE RATING ⁽¹⁾	CAPACITANCE TOLERANCE ⁽²⁾	TERMINATION	FAILURE RATE	MARKING PACKAGING
CDR01 CDR02 CDR03 CDR04 CDR06 CDR31 CDR32 CDR33 CDR34 CDR35 CDR36 CDR37	BP BR BX	Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier. Examples: 102 = 1000 pF 1R8 = 1.8 pF	W = 6.3 V X = 10 V Y = 16 V Z = 25 V A = 50 V B = 100 V	C = ± 0.25 pF D = ± 0.5 pF F = ± 1 % G = ± 2 % J = ± 5 % K = ± 10 % M = ± 20 %	M = silver palladium ⁽³⁾ Y = Ni barrier with 100 % tin W, Z = Ni barrier with tin / lead plate min. 4 % lead U = Ni barrier solder coated (min. of 4 % lead)	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" / 13" reel / plastic tape P = 11 1/4" / 13" reel / paper tape B = bulk

Notes

- (1) DC voltage rating should not be exceeded in application. Other application factors may affect the MLCC performance. Consult for questions: mlcc@vishay.com
- (2) Available tolerances please see rating chart
- (3) M termination not available for CDR36 and CDR37 parts

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 (0.75)
	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 (0.75)
	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 (0.75)
	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 (0.75)
/3	CDR06	0.225 ± 0.020 (5.72 ± 0.51)	0.250 ± 0.020 (6.35 ± 0.51)	0.080 (2.03)	0.010 (0.25)	0.030 (0.75)
/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)	0.049 (1.25)	0.010 (0.25)	0.030 (0.75)
/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 (0.75)
/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)
/12	CDR36	0.063 ± 0.006 (1.60 ± 0.15)	0.032 ± 0.006 (0.81 ± 0.15)	0.036 (0.91)	0.008 (0.20)	0.020 (0.51)
/13	CDR37	0.040 ± 0.004 (1.02 ± 0.10)	0.020 ± 0.004 (0.51 ± 0.10)	0.024 (0.61)	0.004 (0.10)	0.016 (0.41)

MIL-C-55681 QUALIFIED, TYPE CDR

MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR01BP						
CDR01BP100B_ _ _	100	10	J, K	BP	100	RoHS-compliant
CDR01BP120BJ_ _	120	12	J	BP	100	RoHS-compliant
CDR01BP150B_ _ _	150	15	J, K	BP	100	RoHS-compliant
CDR01BP180BJ_ _	180	18	J	BP	100	RoHS-compliant
CDR01BP220B_ _ _	220	22	J, K	BP	100	RoHS-compliant
CDR01BP270BJ_ _	270	27	J	BP	100	RoHS-compliant
CDR01BP330B_ _ _	330	33	J, K	BP	100	RoHS-compliant
CDR01BP390BJ_ _	390	39	J	BP	100	RoHS-compliant
CDR01BP470B_ _ _	470	47	J, K	BP	100	RoHS-compliant
CDR01BP560BJ_ _	560	56	J	BP	100	RoHS-compliant
CDR01BP680B_ _ _	680	68	J, K	BP	100	RoHS-compliant
CDR01BP820BJ_ _	820	82	J	BP	100	RoHS-compliant
CDR01BP101B_ _ _	101	100	J, K	BP	100	RoHS-compliant
CDR01BP121B_ _ _	121	120	J, K	BP	100	Not RoHS-compliant
CDR01BP151B_ _ _	151	150	J, K	BP	100	Not RoHS-compliant
CDR01BP181B_ _ _	181	180	J, K	BP	100	Not RoHS-compliant

Notes

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MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR01BX						
CDR01BX121B_ _ _	121	120	J, K	BX	100	
CDR01BX151B_ _ _	151	150	J, K	BX	100	
CDR01BX181B_ _ _	181	180	J, K	BX	100	
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	
CDR02BP						
CDR02BP221B_ _ _	221	220	J, K	BP	100	
CDR02BP271BJ_ _	271	270	J	BP	100	
CDR02BX						
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	
CDR03BP						
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	
CDR03BX						
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	

Notes

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MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR04BP						
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	
CDR04BX						
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	
CDR06BX						
CDR06BX394AK_ _	394	390 000	K	BX	50	
CDR06BX474A_ _ _	474	470 000	K, M	BX	50	
CDR31BP						
CDR31BP1R0B_ _ _	1R0	1.0	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	2.0	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	3.0	C, D	BP	100	
CDR31BP3R3B_ _ _	3R3	3.3	C, D	BP	100	
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	

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CDR31BP						
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	

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CDR31BX						
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	
CDR32BP						
CDR32BP1R0B_ _ _	1R0	1.0	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	2.0	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	3.0	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	

Notes

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR32BP						
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	
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	

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CDR32BP						
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	
CDR32BX						
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	
CDR33BP						
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	
CDR33BX						
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	

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MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR34BP						
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	
CDR34BX						
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	
CDR35BP						
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	

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CDR35BX						
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	
CDR37BP						
CDR37BP220X_ _ _	220	22	F, G, J	BP	10	
CDR37BP240X_ _ _	240	24	F, G, J	BP	10	
CDR37BP270X_ _ _	270	27	F, G, J	BP	10	
CDR37BP300X_ _ _	300	30	F, G, J	BP	10	
CDR37BP330X_ _ _	330	33	F, G, J	BP	10	
CDR37BP360X_ _ _	360	36	F, G, J	BP	10	
CDR37BP390X_ _ _	390	39	F, G, J	BP	10	
CDR37BP430X_ _ _	430	43	F, G, J	BP	10	
CDR37BP470X_ _ _	470	47	F, G, J	BP	10	
CDR37BP510X_ _ _	510	51	F, G, J	BP	10	
CDR37BP560X_ _ _	560	56	F, G, J	BP	10	
CDR37BP620X_ _ _	620	62	F, G, J	BP	10	
CDR37BP680X_ _ _	680	68	F, G, J	BP	10	
CDR37BP750X_ _ _	750	75	F, G, J	BP	10	
CDR37BP820X_ _ _	820	82	F, G, J	BP	10	
CDR37BP910X_ _ _	910	91	F, G, J	BP	10	
CDR37BP101X_ _ _	101	100	F, G, J	BP	10	
CDR37BP121X_ _ _	121	120	F, G, J	BP	10	
CDR37BP151X_ _ _	151	150	F, G, J	BP	10	
CDR37BP220Y_ _ _	220	22	F, G, J	BP	16	
CDR37BP240Y_ _ _	240	24	F, G, J	BP	16	
CDR37BP270Y_ _ _	270	27	F, G, J	BP	16	
CDR37BP300Y_ _ _	300	30	F, G, J	BP	16	
CDR37BP330Y_ _ _	330	33	F, G, J	BP	16	
CDR37BP360Y_ _ _	360	36	F, G, J	BP	16	
CDR37BP390Y_ _ _	390	39	F, G, J	BP	16	
CDR37BP430Y_ _ _	430	43	F, G, J	BP	16	
CDR37BP470Y_ _ _	470	47	F, G, J	BP	16	
CDR37BP510Y_ _ _	510	51	F, G, J	BP	16	
CDR37BP560Y_ _ _	560	56	F, G, J	BP	16	
CDR37BP620Y_ _ _	620	62	F, G, J	BP	16	
CDR37BP680Y_ _ _	680	68	F, G, J	BP	16	
CDR37BP750Y_ _ _	750	75	F, G, J	BP	16	
CDR37BP820Y_ _ _	820	82	F, G, J	BP	16	
CDR37BP910Y_ _ _	910	91	F, G, J	BP	16	
CDR37BP101Y_ _ _	101	100	F, G, J	BP	16	
CDR37BP121Y_ _ _	121	120	F, G, J	BP	16	
CDR37BP151Y_ _ _	151	150	F, G, J	BP	16	

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CDR37BP						
CDR37BP220Z_ _ _	220	22	F, G, J	BP	25	
CDR37BP240Z_ _ _	240	24	F, G, J	BP	25	
CDR37BP270Z_ _ _	270	27	F, G, J	BP	25	
CDR37BP300Z_ _ _	300	30	F, G, J	BP	25	
CDR37BP330Z_ _ _	330	33	F, G, J	BP	25	
CDR37BP360Z_ _ _	360	36	F, G, J	BP	25	
CDR37BP390Z_ _ _	390	39	F, G, J	BP	25	
CDR37BP430Z_ _ _	430	43	F, G, J	BP	25	
CDR37BP470Z_ _ _	470	47	F, G, J	BP	25	
CDR37BP510Z_ _ _	510	51	F, G, J	BP	25	
CDR37BP560Z_ _ _	560	56	F, G, J	BP	25	
CDR37BP620Z_ _ _	620	62	F, G, J	BP	25	
CDR37BP680Z_ _ _	680	68	F, G, J	BP	25	
CDR37BP750Z_ _ _	750	75	F, G, J	BP	25	
CDR37BP820Z_ _ _	820	82	F, G, J	BP	25	
CDR37BP910Z_ _ _	910	91	F, G, J	BP	25	
CDR37BP101Z_ _ _	101	100	F, G, J	BP	25	
CDR37BP121Z_ _ _	121	120	F, G, J	BP	25	
CDR37BP151Z_ _ _	151	150	F, G, J	BP	25	
CDR37BP220A_ _ _	220	22	F, G, J	BP	50	
CDR37BP240A_ _ _	240	24	F, G, J	BP	50	
CDR37BP270A_ _ _	270	27	F, G, J	BP	50	
CDR37BP300A_ _ _	300	30	F, G, J	BP	50	
CDR37BP330A_ _ _	330	33	F, G, J	BP	50	
CDR37BP360A_ _ _	360	36	F, G, J	BP	50	
CDR37BP390A_ _ _	390	39	F, G, J	BP	50	
CDR37BP430A_ _ _	430	43	F, G, J	BP	50	
CDR37BP470A_ _ _	470	47	F, G, J	BP	50	
CDR37BP510A_ _ _	510	51	F, G, J	BP	50	
CDR37BP560A_ _ _	560	56	F, G, J	BP	50	
CDR37BP620A_ _ _	620	62	F, G, J	BP	50	
CDR37BP680A_ _ _	680	68	F, G, J	BP	50	
CDR37BP750A_ _ _	750	75	F, G, J	BP	50	
CDR37BP820A_ _ _	820	82	F, G, J	BP	50	
CDR37BP910A_ _ _	910	91	F, G, J	BP	50	
CDR37BP101A_ _ _	101	100	F, G, J	BP	50	
CDR37BP121A_ _ _	121	120	F, G, J	BP	50	
CDR37BP151A_ _ _	151	150	F, G, J	BP	50	
CDR37BP220B_ _ _	220	22	F, G, J	BP	100	
CDR37BP240B_ _ _	240	24	F, G, J	BP	100	
CDR37BP270B_ _ _	270	27	F, G, J	BP	100	
CDR37BP300B_ _ _	300	30	F, G, J	BP	100	
CDR37BP330B_ _ _	330	33	F, G, J	BP	100	
CDR37BP360B_ _ _	360	36	F, G, J	BP	100	
CDR37BP390B_ _ _	390	39	F, G, J	BP	100	
CDR37BP430B_ _ _	430	43	F, G, J	BP	100	
CDR37BP470B_ _ _	470	47	F, G, J	BP	100	
CDR37BP510B_ _ _	510	51	F, G, J	BP	100	
CDR37BP560B_ _ _	560	56	F, G, J	BP	100	
CDR37BP620B_ _ _	620	62	F, G, J	BP	100	
CDR37BP680B_ _ _	680	68	F, G, J	BP	100	
CDR37BP750B_ _ _	750	75	F, G, J	BP	100	
CDR37BP820B_ _ _	820	82	F, G, J	BP	100	
CDR37BP910B_ _ _	910	91	F, G, J	BP	100	
CDR37BP101B_ _ _	101	100	F, G, J	BP	100	
CDR37BP121B_ _ _	121	120	F, G, J	BP	100	
CDR37BP151B_ _ _	151	150	F, G, J	BP	100	

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CDR37BX						
CDR37BX101W_ _ _	101	100	J, K, M	BX	6.3	
CDR37BX121W_ _ _	121	120	J, K, M	BX	6.3	
CDR37BX151W_ _ _	151	150	J, K, M	BX	6.3	
CDR37BX181W_ _ _	181	180	J, K, M	BX	6.3	
CDR37BX221W_ _ _	221	220	J, K, M	BX	6.3	
CDR37BX271W_ _ _	271	270	J, K, M	BX	6.3	
CDR37BX331W_ _ _	331	330	J, K, M	BX	6.3	
CDR37BX391W_ _ _	391	390	J, K, M	BX	6.3	
CDR37BX471W_ _ _	471	470	J, K, M	BX	6.3	
CDR37BX561W_ _ _	561	560	J, K, M	BX	6.3	
CDR37BX681W_ _ _	681	680	J, K, M	BX	6.3	
CDR37BX821W_ _ _	821	820	J, K, M	BX	6.3	
CDR37BX102W_ _ _	102	1000	J, K, M	BX	6.3	
CDR37BX122W_ _ _	122	1200	J, K, M	BX	6.3	
CDR37BX152W_ _ _	152	1500	J, K, M	BX	6.3	
CDR37BX182W_ _ _	182	1800	J, K, M	BX	6.3	
CDR37BX222W_ _ _	222	2200	J, K, M	BX	6.3	
CDR37BX272W_ _ _	272	2700	J, K, M	BX	6.3	
CDR37BX332W_ _ _	332	3300	J, K, M	BX	6.3	
CDR37BX392W_ _ _	392	3900	J, K, M	BX	6.3	
CDR37BX472W_ _ _	472	4700	J, K, M	BX	6.3	
CDR37BX562W_ _ _	562	5600	J, K, M	BX	6.3	
CDR37BX682W_ _ _	682	6800	J, K, M	BX	6.3	
CDR37BX822W_ _ _	822	8200	J, K, M	BX	6.3	
CDR37BX101X_ _ _	101	100	J, K, M	BX	10	
CDR37BX121X_ _ _	121	120	J, K, M	BX	10	
CDR37BX151X_ _ _	151	150	J, K, M	BX	10	
CDR37BX181X_ _ _	181	180	J, K, M	BX	10	
CDR37BX221X_ _ _	221	220	J, K, M	BX	10	
CDR37BX271X_ _ _	271	270	J, K, M	BX	10	
CDR37BX331X_ _ _	331	330	J, K, M	BX	10	
CDR37BX391X_ _ _	391	390	J, K, M	BX	10	
CDR37BX471X_ _ _	471	470	J, K, M	BX	10	
CDR37BX561X_ _ _	561	560	J, K, M	BX	10	
CDR37BX681X_ _ _	681	680	J, K, M	BX	10	
CDR37BX821X_ _ _	821	820	J, K, M	BX	10	
CDR37BX102X_ _ _	102	1000	J, K, M	BX	10	
CDR37BX122X_ _ _	122	1200	J, K, M	BX	10	
CDR37BX152X_ _ _	152	1500	J, K, M	BX	10	
CDR37BX182X_ _ _	182	1800	J, K, M	BX	10	
CDR37BX222X_ _ _	222	2200	J, K, M	BX	10	
CDR37BX272X_ _ _	272	2700	J, K, M	BX	10	
CDR37BX332X_ _ _	332	3300	J, K, M	BX	10	
CDR37BX392X_ _ _	392	3900	J, K, M	BX	10	
CDR37BX472X_ _ _	472	4700	J, K, M	BX	10	
CDR37BX562X_ _ _	562	5600	J, K, M	BX	10	
CDR37BX682X_ _ _	682	6800	J, K, M	BX	10	
CDR37BX822X_ _ _	822	8200	J, K, M	BX	10	
CDR37BX101Y_ _ _	101	100	J, K, M	BX	16	
CDR37BX121Y_ _ _	121	120	J, K, M	BX	16	
CDR37BX151Y_ _ _	151	150	J, K, M	BX	16	
CDR37BX181Y_ _ _	181	180	J, K, M	BX	16	
CDR37BX221Y_ _ _	221	220	J, K, M	BX	16	

Notes

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR37BX						
CDR37BX271Y_ _ _	271	270	J, K, M	BX	16	
CDR37BX331Y_ _ _	331	330	J, K, M	BX	16	
CDR37BX391Y_ _ _	391	390	J, K, M	BX	16	
CDR37BX471Y_ _ _	471	470	J, K, M	BX	16	
CDR37BX561Y_ _ _	561	560	J, K, M	BX	16	
CDR37BX681Y_ _ _	681	680	J, K, M	BX	16	
CDR37BX821Y_ _ _	821	820	J, K, M	BX	16	
CDR37BX102Y_ _ _	102	1000	J, K, M	BX	16	
CDR37BX122Y_ _ _	122	1200	J, K, M	BX	16	
CDR37BX152Y_ _ _	152	1500	J, K, M	BX	16	
CDR37BX182Y_ _ _	182	1800	J, K, M	BX	16	
CDR37BX222Y_ _ _	222	2200	J, K, M	BX	16	
CDR37BX272Y_ _ _	272	2700	J, K, M	BX	16	
CDR37BX332Y_ _ _	332	3300	J, K, M	BX	16	
CDR37BX392Y_ _ _	392	3900	J, K, M	BX	16	
CDR37BX472Y_ _ _	472	4700	J, K, M	BX	16	
CDR37BX562Y_ _ _	562	5600	J, K, M	BX	16	
CDR37BX682Y_ _ _	682	6800	J, K, M	BX	16	
CDR37BX822Y_ _ _	822	8200	J, K, M	BX	16	
CDR37BX101Z_ _ _	101	100	J, K, M	BX	25	
CDR37BX121Z_ _ _	121	120	J, K, M	BX	25	
CDR37BX151Z_ _ _	151	150	J, K, M	BX	25	
CDR37BX181Z_ _ _	181	180	J, K, M	BX	25	
CDR37BX221Z_ _ _	221	220	J, K, M	BX	25	
CDR37BX271Z_ _ _	271	270	J, K, M	BX	25	
CDR37BX331Z_ _ _	331	330	J, K, M	BX	25	
CDR37BX391Z_ _ _	391	390	J, K, M	BX	25	
CDR37BX471Z_ _ _	471	470	J, K, M	BX	25	
CDR37BX561Z_ _ _	561	560	J, K, M	BX	25	
CDR37BX681Z_ _ _	681	680	J, K, M	BX	25	
CDR37BX821Z_ _ _	821	820	J, K, M	BX	25	
CDR37BX102Z_ _ _	102	1000	J, K, M	BX	25	
CDR37BX122Z_ _ _	122	1200	J, K, M	BX	25	
CDR37BX152Z_ _ _	152	1500	J, K, M	BX	25	
CDR37BX182Z_ _ _	182	1800	J, K, M	BX	25	
CDR37BX222Z_ _ _	222	2200	J, K, M	BX	25	
CDR37BX272Z_ _ _	272	2700	J, K, M	BX	25	
CDR37BX332Z_ _ _	332	3300	J, K, M	BX	25	
CDR37BX392Z_ _ _	392	3900	J, K, M	BX	25	
CDR37BX101A_ _ _	101	100	J, K, M	BX	50	
CDR37BX121A_ _ _	121	120	J, K, M	BX	50	
CDR37BX151A_ _ _	151	150	J, K, M	BX	50	
CDR37BX181A_ _ _	181	180	J, K, M	BX	50	
CDR37BX221A_ _ _	221	220	J, K, M	BX	50	
CDR37BX271A_ _ _	271	270	J, K, M	BX	50	
CDR37BX331A_ _ _	331	330	J, K, M	BX	50	
CDR37BX391A_ _ _	391	390	J, K, M	BX	50	
CDR37BX471A_ _ _	471	470	J, K, M	BX	50	
CDR37BX561A_ _ _	561	560	J, K, M	BX	50	
CDR37BX681A_ _ _	681	680	J, K, M	BX	50	
CDR37BX821A_ _ _	821	820	J, K, M	BX	50	
CDR37BX102A_ _ _	102	1000	J, K, M	BX	50	
CDR37BX122A_ _ _	122	1200	J, K, M	BX	50	
CDR37BX152A_ _ _	152	1500	J, K, M	BX	50	

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR37BR						
CDR37BR101W_ _ _	101	100	J, K, M	BR	6.3	
CDR37BR121W_ _ _	121	120	J, K, M	BR	6.3	
CDR37BR151W_ _ _	151	150	J, K, M	BR	6.3	
CDR37BR181W_ _ _	181	180	J, K, M	BR	6.3	
CDR37BR221W_ _ _	221	220	J, K, M	BR	6.3	
CDR37BR271W_ _ _	271	270	J, K, M	BR	6.3	
CDR37BR331W_ _ _	331	330	J, K, M	BR	6.3	
CDR37BR391W_ _ _	391	390	J, K, M	BR	6.3	
CDR37BR471W_ _ _	471	470	J, K, M	BR	6.3	
CDR37BR561W_ _ _	561	560	J, K, M	BR	6.3	
CDR37BR681W_ _ _	681	680	J, K, M	BR	6.3	
CDR37BR821W_ _ _	821	820	J, K, M	BR	6.3	
CDR37BR102W_ _ _	102	1000	J, K, M	BR	6.3	
CDR37BR122W_ _ _	122	1200	J, K, M	BR	6.3	
CDR37BR152W_ _ _	152	1500	J, K, M	BR	6.3	
CDR37BR182W_ _ _	182	1800	J, K, M	BR	6.3	
CDR37BR222W_ _ _	222	2200	J, K, M	BR	6.3	
CDR37BR272W_ _ _	272	2700	J, K, M	BR	6.3	
CDR37BR332W_ _ _	332	3300	J, K, M	BR	6.3	
CDR37BR392W_ _ _	392	3900	J, K, M	BR	6.3	
CDR37BR472W_ _ _	472	4700	J, K, M	BR	6.3	
CDR37BR562W_ _ _	562	5600	J, K, M	BR	6.3	
CDR37BR682W_ _ _	682	6800	J, K, M	BR	6.3	
CDR37BR822W_ _ _	822	8200	J, K, M	BR	6.3	
CDR37BR103W_ _ _	103	10 000	J, K, M	BR	6.3	
CDR37BR101X_ _ _	101	100	J, K, M	BR	10	
CDR37BR121X_ _ _	121	120	J, K, M	BR	10	
CDR37BR151X_ _ _	151	150	J, K, M	BR	10	
CDR37BR181X_ _ _	181	180	J, K, M	BR	10	
CDR37BR221X_ _ _	221	220	J, K, M	BR	10	
CDR37BR271X_ _ _	271	270	J, K, M	BR	10	
CDR37BR331X_ _ _	331	330	J, K, M	BR	10	
CDR37BR391X_ _ _	391	390	J, K, M	BR	10	
CDR37BR471X_ _ _	471	470	J, K, M	BR	10	
CDR37BR561X_ _ _	561	560	J, K, M	BR	10	
CDR37BR681X_ _ _	681	680	J, K, M	BR	10	
CDR37BR821X_ _ _	821	820	J, K, M	BR	10	
CDR37BR102X_ _ _	102	1000	J, K, M	BR	10	
CDR37BR122X_ _ _	122	1200	J, K, M	BR	10	
CDR37BR152X_ _ _	152	1500	J, K, M	BR	10	
CDR37BR182X_ _ _	182	1800	J, K, M	BR	10	
CDR37BR222X_ _ _	222	2200	J, K, M	BR	10	
CDR37BR272X_ _ _	272	2700	J, K, M	BR	10	
CDR37BR332X_ _ _	332	3300	J, K, M	BR	10	
CDR37BR392X_ _ _	392	3900	J, K, M	BR	10	
CDR37BR472X_ _ _	472	4700	J, K, M	BR	10	
CDR37BR562X_ _ _	562	5600	J, K, M	BR	10	
CDR37BR682X_ _ _	682	6800	J, K, M	BR	10	
CDR37BR822X_ _ _	822	8200	J, K, M	BR	10	
CDR37BR103X_ _ _	103	10 000	J, K, M	BR	10	

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR37BR						
CDR37BR101Y_	101	100	J, K, M	BR	16	
CDR37BR121Y_	121	120	J, K, M	BR	16	
CDR37BR151Y_	151	150	J, K, M	BR	16	
CDR37BR181Y_	181	180	J, K, M	BR	16	
CDR37BR221Y_	221	220	J, K, M	BR	16	
CDR37BR271Y_	271	270	J, K, M	BR	16	
CDR37BR331Y_	331	330	J, K, M	BR	16	
CDR37BR391Y_	391	390	J, K, M	BR	16	
CDR37BR471Y_	471	470	J, K, M	BR	16	
CDR37BR561Y_	561	560	J, K, M	BR	16	
CDR37BR681Y_	681	680	J, K, M	BR	16	
CDR37BR821Y_	821	820	J, K, M	BR	16	
CDR37BR102Y_	102	1000	J, K, M	BR	16	
CDR37BR122Y_	122	1200	J, K, M	BR	16	
CDR37BR152Y_	152	1500	J, K, M	BR	16	
CDR37BR182Y_	182	1800	J, K, M	BR	16	
CDR37BR222Y_	222	2200	J, K, M	BR	16	
CDR37BR272Y_	272	2700	J, K, M	BR	16	
CDR37BR332Y_	332	3300	J, K, M	BR	16	
CDR37BR392Y_	392	3900	J, K, M	BR	16	
CDR37BR472Y_	472	4700	J, K, M	BR	16	
CDR37BR562Y_	562	5600	J, K, M	BR	16	
CDR37BR682Y_	682	6800	J, K, M	BR	16	
CDR37BR822Y_	822	8200	J, K, M	BR	16	
CDR37BR103Y_	103	10 000	J, K, M	BR	16	
CDR37BR101Z_	101	100	J, K, M	BR	25	
CDR37BR121Z_	121	120	J, K, M	BR	25	
CDR37BR151Z_	151	150	J, K, M	BR	25	
CDR37BR181Z_	181	180	J, K, M	BR	25	
CDR37BR221Z_	221	220	J, K, M	BR	25	
CDR37BR271Z_	271	270	J, K, M	BR	25	
CDR37BR331Z_	331	330	J, K, M	BR	25	
CDR37BR391Z_	391	390	J, K, M	BR	25	
CDR37BR471Z_	471	470	J, K, M	BR	25	
CDR37BR561Z_	561	560	J, K, M	BR	25	
CDR37BR681Z_	681	680	J, K, M	BR	25	
CDR37BR821Z_	821	820	J, K, M	BR	25	
CDR37BR102Z_	102	1000	J, K, M	BR	25	
CDR37BR122Z_	122	1200	J, K, M	BR	25	
CDR37BR152Z_	152	1500	J, K, M	BR	25	
CDR37BR182Z_	182	1800	J, K, M	BR	25	
CDR37BR222Z_	222	2200	J, K, M	BR	25	
CDR37BR272Z_	272	2700	J, K, M	BR	25	
CDR37BR332Z_	332	3300	J, K, M	BR	25	
CDR37BR392Z_	392	3900	J, K, M	BR	25	

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CDR37BR						
CDR37BR101A_ _ _	101	100	J, K, M	BR	50	
CDR37BR121A_ _ _	121	120	J, K, M	BR	50	
CDR37BR151A_ _ _	151	150	J, K, M	BR	50	
CDR37BR181A_ _ _	181	180	J, K, M	BR	50	
CDR37BR221A_ _ _	221	220	J, K, M	BR	50	
CDR37BR271A_ _ _	271	270	J, K, M	BR	50	
CDR37BR331A_ _ _	331	330	J, K, M	BR	50	
CDR37BR391A_ _ _	391	390	J, K, M	BR	50	
CDR37BR471A_ _ _	471	470	J, K, M	BR	50	
CDR37BR561A_ _ _	561	560	J, K, M	BR	50	
CDR37BR681A_ _ _	681	680	J, K, M	BR	50	
CDR37BR821A_ _ _	821	820	J, K, M	BR	50	
CDR37BR102A_ _ _	102	1000	J, K, M	BR	50	
CDR37BR122A_ _ _	122	1200	J, K, M	BR	50	
CDR37BR152A_ _ _	152	1500	J, K, M	BR	50	
CDR37BR182A_ _ _	182	1800	J, K, M	BR	50	
CDR37BR222A_ _ _	222	2200	J, K, M	BR	50	
CDR37BR272A_ _ _	272	2700	J, K, M	BR	50	
CDR37BR332A_ _ _	332	3300	J, K, M	BR	50	
CDR37BR392A_ _ _	392	3900	J, K, M	BR	50	
CDR36BP						
CDR36BP510X_ _ _	510	51	F, G, J	BP	10	
CDR36BP560X_ _ _	560	56	F, G, J	BP	10	
CDR36BP620X_ _ _	620	62	F, G, J	BP	10	
CDR36BP680X_ _ _	680	68	F, G, J	BP	10	
CDR36BP750X_ _ _	750	75	F, G, J	BP	10	
CDR36BP820X_ _ _	820	82	F, G, J	BP	10	
CDR36BP910X_ _ _	910	91	F, G, J	BP	10	
CDR36BP101X_ _ _	101	100	F, G, J	BP	10	
CDR36BP121X_ _ _	121	120	F, G, J	BP	10	
CDR36BP151X_ _ _	151	150	F, G, J	BP	10	
CDR36BP181X_ _ _	181	180	F, G, J	BP	10	
CDR36BP221X_ _ _	221	220	F, G, J	BP	10	
CDR36BP271X_ _ _	271	270	F, G, J	BP	10	
CDR36BP331X_ _ _	331	330	F, G, J	BP	10	
CDR36BP391X_ _ _	391	390	F, G, J	BP	10	
CDR36BP471X_ _ _	471	470	F, G, J	BP	10	
CDR36BP561X_ _ _	561	560	F, G, J	BP	10	
CDR36BP681X_ _ _	681	680	F, G, J	BP	10	
CDR36BP821X_ _ _	821	820	F, G, J	BP	10	
CDR36BP102X_ _ _	102	1000	F, G, J	BP	10	
CDR36BP510Y_ _ _	510	51	F, G, J	BP	16	
CDR36BP560Y_ _ _	560	56	F, G, J	BP	16	
CDR36BP620Y_ _ _	620	62	F, G, J	BP	16	
CDR36BP680Y_ _ _	680	68	F, G, J	BP	16	
CDR36BP750Y_ _ _	750	75	F, G, J	BP	16	
CDR36BP820Y_ _ _	820	82	F, G, J	BP	16	
CDR36BP910Y_ _ _	910	91	F, G, J	BP	16	
CDR36BP101Y_ _ _	101	100	F, G, J	BP	16	
CDR36BP121Y_ _ _	121	120	F, G, J	BP	16	
CDR36BP151Y_ _ _	151	150	F, G, J	BP	16	

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MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BP						
CDR36BP181Y_ _ _	181	180	F, G, J	BP	16	
CDR36BP221Y_ _ _	221	220	F, G, J	BP	16	
CDR36BP271Y_ _ _	271	270	F, G, J	BP	16	
CDR36BP331Y_ _ _	331	330	F, G, J	BP	16	
CDR36BP391Y_ _ _	391	390	F, G, J	BP	16	
CDR36BP471Y_ _ _	471	470	F, G, J	BP	16	
CDR36BP561Y_ _ _	561	560	F, G, J	BP	16	
CDR36BP681Y_ _ _	681	680	F, G, J	BP	16	
CDR36BP821Y_ _ _	821	820	F, G, J	BP	16	
CDR36BP102Y_ _ _	102	1000	F, G, J	BP	16	
CDR36BP510Z_ _ _	510	51	F, G, J	BP	25	
CDR36BP560Z_ _ _	560	56	F, G, J	BP	25	
CDR36BP620Z_ _ _	620	62	F, G, J	BP	25	
CDR36BP680Z_ _ _	680	68	F, G, J	BP	25	
CDR36BP750Z_ _ _	750	75	F, G, J	BP	25	
CDR36BP820Z_ _ _	820	82	F, G, J	BP	25	
CDR36BP910Z_ _ _	910	91	F, G, J	BP	25	
CDR36BP101Z_ _ _	101	100	F, G, J	BP	25	
CDR36BP121Z_ _ _	121	120	F, G, J	BP	25	
CDR36BP151Z_ _ _	151	150	F, G, J	BP	25	
CDR36BP181Z_ _ _	181	180	F, G, J	BP	25	
CDR36BP221Z_ _ _	221	220	F, G, J	BP	25	
CDR36BP271Z_ _ _	271	270	F, G, J	BP	25	
CDR36BP331Z_ _ _	331	330	F, G, J	BP	25	
CDR36BP391Z_ _ _	391	390	F, G, J	BP	25	
CDR36BP471Z_ _ _	471	470	F, G, J	BP	25	
CDR36BP561Z_ _ _	561	560	F, G, J	BP	25	
CDR36BP681Z_ _ _	681	680	F, G, J	BP	25	
CDR36BP821Z_ _ _	821	820	F, G, J	BP	25	
CDR36BP102Z_ _ _	102	1000	F, G, J	BP	25	
CDR36BP510A_ _ _	510	51	F, G, J	BP	50	
CDR36BP560A_ _ _	560	56	F, G, J	BP	50	
CDR36BP620A_ _ _	620	62	F, G, J	BP	50	
CDR36BP680A_ _ _	680	68	F, G, J	BP	50	
CDR36BP750A_ _ _	750	75	F, G, J	BP	50	
CDR36BP820A_ _ _	820	82	F, G, J	BP	50	
CDR36BP910A_ _ _	910	91	F, G, J	BP	50	
CDR36BP101A_ _ _	101	100	F, G, J	BP	50	
CDR36BP121A_ _ _	121	120	F, G, J	BP	50	
CDR36BP151A_ _ _	151	150	F, G, J	BP	50	
CDR36BP181A_ _ _	181	180	F, G, J	BP	50	
CDR36BP221A_ _ _	221	220	F, G, J	BP	50	
CDR36BP271A_ _ _	271	270	F, G, J	BP	50	
CDR36BP331A_ _ _	331	330	F, G, J	BP	50	
CDR36BP391A_ _ _	391	390	F, G, J	BP	50	
CDR36BP471A_ _ _	471	470	F, G, J	BP	50	
CDR36BP561A_ _ _	561	560	F, G, J	BP	50	
CDR36BP681A_ _ _	681	680	F, G, J	BP	50	

Notes

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- Not RoHS-compliant



MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BP						
CDR36BP510B_ _ _	510	51	F, G, J	BP	100	
CDR36BP560B_ _ _	560	56	F, G, J	BP	100	
CDR36BP620B_ _ _	620	62	F, G, J	BP	100	
CDR36BP680B_ _ _	680	68	F, G, J	BP	100	
CDR36BP750B_ _ _	750	75	F, G, J	BP	100	
CDR36BP820B_ _ _	820	82	F, G, J	BP	100	
CDR36BP910B_ _ _	910	91	F, G, J	BP	100	
CDR36BP101B_ _ _	101	100	F, G, J	BP	100	
CDR36BP121B_ _ _	121	120	F, G, J	BP	100	
CDR36BP151B_ _ _	151	150	F, G, J	BP	100	
CDR36BP181B_ _ _	181	180	F, G, J	BP	100	
CDR36BP221B_ _ _	221	220	F, G, J	BP	100	
CDR36BP271B_ _ _	271	270	F, G, J	BP	100	
CDR36BP331B_ _ _	331	330	F, G, J	BP	100	
CDR36BX						
CDR36BX101W_ _ _	101	100	J, K, M	BX	6.3	
CDR36BX121W_ _ _	121	120	J, K, M	BX	6.3	
CDR36BX151W_ _ _	151	150	J, K, M	BX	6.3	
CDR36BX181W_ _ _	181	180	J, K, M	BX	6.3	
CDR36BX221W_ _ _	221	220	J, K, M	BX	6.3	
CDR36BX271W_ _ _	271	270	J, K, M	BX	6.3	
CDR36BX331W_ _ _	331	330	J, K, M	BX	6.3	
CDR36BX391W_ _ _	391	390	J, K, M	BX	6.3	
CDR36BX471W_ _ _	471	470	J, K, M	BX	6.3	
CDR36BX561W_ _ _	561	560	J, K, M	BX	6.3	
CDR36BX681W_ _ _	681	680	J, K, M	BX	6.3	
CDR36BX821W_ _ _	821	820	J, K, M	BX	6.3	
CDR36BX102W_ _ _	102	1000	J, K, M	BX	6.3	
CDR36BX122W_ _ _	122	1200	J, K, M	BX	6.3	
CDR36BX152W_ _ _	152	1500	J, K, M	BX	6.3	
CDR36BX182W_ _ _	182	1800	J, K, M	BX	6.3	
CDR36BX222W_ _ _	222	2200	J, K, M	BX	6.3	
CDR36BX272W_ _ _	272	2700	J, K, M	BX	6.3	
CDR36BX332W_ _ _	332	3300	J, K, M	BX	6.3	
CDR36BX392W_ _ _	392	3900	J, K, M	BX	6.3	
CDR36BX472W_ _ _	472	4700	J, K, M	BX	6.3	
CDR36BX562W_ _ _	562	5600	J, K, M	BX	6.3	
CDR36BX682W_ _ _	682	6800	J, K, M	BX	6.3	
CDR36BX822W_ _ _	822	8200	J, K, M	BX	6.3	
CDR36BX103W_ _ _	103	10 000	J, K, M	BX	6.3	
CDR36BX123W_ _ _	123	12 000	J, K, M	BX	6.3	
CDR36BX153W_ _ _	153	15 000	J, K, M	BX	6.3	
CDR36BX183W_ _ _	183	18 000	J, K, M	BX	6.3	
CDR36BX223W_ _ _	223	22 000	J, K, M	BX	6.3	
CDR36BX273W_ _ _	273	27 000	J, K, M	BX	6.3	
CDR36BX333W_ _ _	333	33 000	J, K, M	BX	6.3	
CDR36BX393W_ _ _	393	39 000	J, K, M	BX	6.3	
CDR36BX473W_ _ _	473	47 000	J, K, M	BX	6.3	
CDR36BX563W_ _ _	563	56 000	J, K, M	BX	6.3	

Notes

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BX						
CDR36BX101X_	101	100	J, K, M	BX	10	
CDR36BX121X_	121	120	J, K, M	BX	10	
CDR36BX151X_	151	150	J, K, M	BX	10	
CDR36BX181X_	181	180	J, K, M	BX	10	
CDR36BX221X_	221	220	J, K, M	BX	10	
CDR36BX271X_	271	270	J, K, M	BX	10	
CDR36BX331X_	331	330	J, K, M	BX	10	
CDR36BX391X_	391	390	J, K, M	BX	10	
CDR36BX471X_	471	470	J, K, M	BX	10	
CDR36BX561X_	561	560	J, K, M	BX	10	
CDR36BX681X_	681	680	J, K, M	BX	10	
CDR36BX821X_	821	820	J, K, M	BX	10	
CDR36BX102X_	102	1000	J, K, M	BX	10	
CDR36BX122X_	122	1200	J, K, M	BX	10	
CDR36BX152X_	152	1500	J, K, M	BX	10	
CDR36BX182X_	182	1800	J, K, M	BX	10	
CDR36BX222X_	222	2200	J, K, M	BX	10	
CDR36BX272X_	272	2700	J, K, M	BX	10	
CDR36BX332X_	332	3300	J, K, M	BX	10	
CDR36BX392X_	392	3900	J, K, M	BX	10	
CDR36BX472X_	472	4700	J, K, M	BX	10	
CDR36BX562X_	562	5600	J, K, M	BX	10	
CDR36BX682X_	682	6800	J, K, M	BX	10	
CDR36BX822X_	822	8200	J, K, M	BX	10	
CDR36BX103X_	103	10 000	J, K, M	BX	10	
CDR36BX123X_	123	12 000	J, K, M	BX	10	
CDR36BX153X_	153	15 000	J, K, M	BX	10	
CDR36BX183X_	183	18 000	J, K, M	BX	10	
CDR36BX223X_	223	22 000	J, K, M	BX	10	
CDR36BX273X_	273	27 000	J, K, M	BX	10	
CDR36BX333X_	333	33 000	J, K, M	BX	10	
CDR36BX393X_	393	39 000	J, K, M	BX	10	
CDR36BX473X_	473	47 000	J, K, M	BX	10	
CDR36BX563X_	563	56 000	J, K, M	BX	10	
CDR36BX101Y_	101	100	J, K, M	BX	16	
CDR36BX121Y_	121	120	J, K, M	BX	16	
CDR36BX151Y_	151	150	J, K, M	BX	16	
CDR36BX181Y_	181	180	J, K, M	BX	16	
CDR36BX221Y_	221	220	J, K, M	BX	16	
CDR36BX271Y_	271	270	J, K, M	BX	16	
CDR36BX331Y_	331	330	J, K, M	BX	16	
CDR36BX391Y_	391	390	J, K, M	BX	16	
CDR36BX471Y_	471	470	J, K, M	BX	16	
CDR36BX561Y_	561	560	J, K, M	BX	16	
CDR36BX681Y_	681	680	J, K, M	BX	16	
CDR36BX821Y_	821	820	J, K, M	BX	16	
CDR36BX102Y_	102	1000	J, K, M	BX	16	
CDR36BX122Y_	122	1200	J, K, M	BX	16	
CDR36BX152Y_	152	1500	J, K, M	BX	16	
CDR36BX182Y_	182	1800	J, K, M	BX	16	
CDR36BX222Y_	222	2200	J, K, M	BX	16	

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BX						
CDR36BX272Y_ _ _	272	2700	J, K, M	BX	16	
CDR36BX332Y_ _ _	332	3300	J, K, M	BX	16	
CDR36BX392Y_ _ _	392	3900	J, K, M	BX	16	
CDR36BX472Y_ _ _	472	4700	J, K, M	BX	16	
CDR36BX562Y_ _ _	562	5600	J, K, M	BX	16	
CDR36BX682Y_ _ _	682	6800	J, K, M	BX	16	
CDR36BX822Y_ _ _	822	8200	J, K, M	BX	16	
CDR36BX103Y_ _ _	103	10 000	J, K, M	BX	16	
CDR36BX123Y_ _ _	123	12 000	J, K, M	BX	16	
CDR36BX153Y_ _ _	153	15 000	J, K, M	BX	16	
CDR36BX183Y_ _ _	183	18 000	J, K, M	BX	16	
CDR36BX223Y_ _ _	223	22 000	J, K, M	BX	16	
CDR36BX273Y_ _ _	273	27 000	J, K, M	BX	16	
CDR36BX333Y_ _ _	333	33 000	J, K, M	BX	16	
CDR36BX393Y_ _ _	393	39 000	J, K, M	BX	16	
CDR36BX473Y_ _ _	473	47 000	J, K, M	BX	16	
CDR36BX563Y_ _ _	563	56 000	J, K, M	BX	16	
CDR36BX101Z_ _ _	101	100	J, K, M	BX	25	
CDR36BX121Z_ _ _	121	120	J, K, M	BX	25	
CDR36BX151Z_ _ _	151	150	J, K, M	BX	25	
CDR36BX181Z_ _ _	181	180	J, K, M	BX	25	
CDR36BX221Z_ _ _	221	220	J, K, M	BX	25	
CDR36BX271Z_ _ _	271	270	J, K, M	BX	25	
CDR36BX331Z_ _ _	331	330	J, K, M	BX	25	
CDR36BX391Z_ _ _	391	390	J, K, M	BX	25	
CDR36BX471Z_ _ _	471	470	J, K, M	BX	25	
CDR36BX561Z_ _ _	561	560	J, K, M	BX	25	
CDR36BX681Z_ _ _	681	680	J, K, M	BX	25	
CDR36BX821Z_ _ _	821	820	J, K, M	BX	25	
CDR36BX102Z_ _ _	102	1000	J, K, M	BX	25	
CDR36BX122Z_ _ _	122	1200	J, K, M	BX	25	
CDR36BX152Z_ _ _	152	1500	J, K, M	BX	25	
CDR36BX182Z_ _ _	182	1800	J, K, M	BX	25	
CDR36BX222Z_ _ _	222	2200	J, K, M	BX	25	
CDR36BX272Z_ _ _	272	2700	J, K, M	BX	25	
CDR36BX332Z_ _ _	332	3300	J, K, M	BX	25	
CDR36BX392Z_ _ _	392	3900	J, K, M	BX	25	
CDR36BX472Z_ _ _	472	4700	J, K, M	BX	25	
CDR36BX562Z_ _ _	562	5600	J, K, M	BX	25	
CDR36BX682Z_ _ _	682	6800	J, K, M	BX	25	
CDR36BX822Z_ _ _	822	8200	J, K, M	BX	25	
CDR36BX103Z_ _ _	103	10 000	J, K, M	BX	25	
CDR36BX123Z_ _ _	123	12 000	J, K, M	BX	25	
CDR36BX153Z_ _ _	153	15 000	J, K, M	BX	25	
CDR36BX183Z_ _ _	183	18 000	J, K, M	BX	25	
CDR36BX223Z_ _ _	223	22 000	J, K, M	BX	25	
CDR36BX273Z_ _ _	273	27 000	J, K, M	BX	25	

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BX						
CDR36BX101A_ _ _	101	100	J, K, M	BX	50	
CDR36BX121A_ _ _	121	120	J, K, M	BX	50	
CDR36BX151A_ _ _	151	150	J, K, M	BX	50	
CDR36BX181A_ _ _	181	180	J, K, M	BX	50	
CDR36BX221A_ _ _	221	220	J, K, M	BX	50	
CDR36BX271A_ _ _	271	270	J, K, M	BX	50	
CDR36BX331A_ _ _	331	330	J, K, M	BX	50	
CDR36BX391A_ _ _	391	390	J, K, M	BX	50	
CDR36BX471A_ _ _	471	470	J, K, M	BX	50	
CDR36BX561A_ _ _	561	560	J, K, M	BX	50	
CDR36BX681A_ _ _	681	680	J, K, M	BX	50	
CDR36BX821A_ _ _	821	820	J, K, M	BX	50	
CDR36BX102A_ _ _	102	1000	J, K, M	BX	50	
CDR36BX122A_ _ _	122	1200	J, K, M	BX	50	
CDR36BX152A_ _ _	152	1500	J, K, M	BX	50	
CDR36BX182A_ _ _	182	1800	J, K, M	BX	50	
CDR36BX222A_ _ _	222	2200	J, K, M	BX	50	
CDR36BX272A_ _ _	272	2700	J, K, M	BX	50	
CDR36BX332A_ _ _	332	3300	J, K, M	BX	50	
CDR36BX392A_ _ _	392	3900	J, K, M	BX	50	
CDR36BX472A_ _ _	472	4700	J, K, M	BX	50	
CDR36BX562A_ _ _	562	5600	J, K, M	BX	50	
CDR36BX682A_ _ _	682	6800	J, K, M	BX	50	
CDR36BX822A_ _ _	822	8200	J, K, M	BX	50	
CDR36BX103A_ _ _	103	10 000	J, K, M	BX	50	
CDR36BX101B_ _ _	101	100	J, K, M	BX	100	
CDR36BX121B_ _ _	121	120	J, K, M	BX	100	
CDR36BX151B_ _ _	151	150	J, K, M	BX	100	
CDR36BX181B_ _ _	181	180	J, K, M	BX	100	
CDR36BX221B_ _ _	221	220	J, K, M	BX	100	
CDR36BX271B_ _ _	271	270	J, K, M	BX	100	
CDR36BX331B_ _ _	331	330	J, K, M	BX	100	
CDR36BX391B_ _ _	391	390	J, K, M	BX	100	
CDR36BX471B_ _ _	471	470	J, K, M	BX	100	
CDR36BX561B_ _ _	561	560	J, K, M	BX	100	
CDR36BX681B_ _ _	681	680	J, K, M	BX	100	
CDR36BX821B_ _ _	821	820	J, K, M	BX	100	
CDR36BX102B_ _ _	102	1000	J, K, M	BX	100	
CDR36BX122B_ _ _	122	1200	J, K, M	BX	100	
CDR36BX152B_ _ _	152	1500	J, K, M	BX	100	
CDR36BX182B_ _ _	182	1800	J, K, M	BX	100	
CDR36BX222B_ _ _	222	2200	J, K, M	BX	100	
CDR36BX272B_ _ _	272	2700	J, K, M	BX	100	
CDR36BR						
CDR36BR101W_ _ _	101	100	J, K, M	BR	6.3	
CDR36BR121W_ _ _	121	120	J, K, M	BR	6.3	
CDR36BR151W_ _ _	151	150	J, K, M	BR	6.3	
CDR36BR181W_ _ _	181	180	J, K, M	BR	6.3	
CDR36BR221W_ _ _	221	220	J, K, M	BR	6.3	
CDR36BR271W_ _ _	271	270	J, K, M	BR	6.3	
CDR36BR331W_ _ _	331	330	J, K, M	BR	6.3	
CDR36BR391W_ _ _	391	390	J, K, M	BR	6.3	
CDR36BR471W_ _ _	471	470	J, K, M	BR	6.3	

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BR						
CDR36BR561W_ _ _	561	560	J, K, M	BR	6.3	
CDR36BR681W_ _ _	681	680	J, K, M	BR	6.3	
CDR36BR821W_ _ _	821	820	J, K, M	BR	6.3	
CDR36BR102W_ _ _	102	1000	J, K, M	BR	6.3	
CDR36BR122W_ _ _	122	1200	J, K, M	BR	6.3	
CDR36BR152W_ _ _	152	1500	J, K, M	BR	6.3	
CDR36BR182W_ _ _	182	1800	J, K, M	BR	6.3	
CDR36BR222W_ _ _	222	2200	J, K, M	BR	6.3	
CDR36BR272W_ _ _	272	2700	J, K, M	BR	6.3	
CDR36BR332W_ _ _	332	3300	J, K, M	BR	6.3	
CDR36BR392W_ _ _	392	3900	J, K, M	BR	6.3	
CDR36BR472W_ _ _	472	4700	J, K, M	BR	6.3	
CDR36BR562W_ _ _	562	5600	J, K, M	BR	6.3	
CDR36BR682W_ _ _	682	6800	J, K, M	BR	6.3	
CDR36BR822W_ _ _	822	8200	J, K, M	BR	6.3	
CDR36BR103W_ _ _	103	10 000	J, K, M	BR	6.3	
CDR36BR123W_ _ _	123	12 000	J, K, M	BR	6.3	
CDR36BR153W_ _ _	153	15 000	J, K, M	BR	6.3	
CDR36BR183W_ _ _	183	18 000	J, K, M	BR	6.3	
CDR36BR223W_ _ _	223	22 000	J, K, M	BR	6.3	
CDR36BR273W_ _ _	273	27 000	J, K, M	BR	6.3	
CDR36BR333W_ _ _	333	33 000	J, K, M	BR	6.3	
CDR36BR393W_ _ _	393	39 000	J, K, M	BR	6.3	
CDR36BR473W_ _ _	473	47 000	J, K, M	BR	6.3	
CDR36BR563W_ _ _	563	56 000	J, K, M	BR	6.3	
CDR36BR683W_ _ _	683	68 000	J, K, M	BR	6.3	
CDR36BR823W_ _ _	823	82 000	J, K, M	BR	6.3	
CDR36BR104W_ _ _	104	100 000	J, K, M	BR	6.3	
CDR36BR101X_ _ _	101	100	J, K, M	BR	10	
CDR36BR121X_ _ _	121	120	J, K, M	BR	10	
CDR36BR151X_ _ _	151	150	J, K, M	BR	10	
CDR36BR181X_ _ _	181	180	J, K, M	BR	10	
CDR36BR221X_ _ _	221	220	J, K, M	BR	10	
CDR36BR271X_ _ _	271	270	J, K, M	BR	10	
CDR36BR331X_ _ _	331	330	J, K, M	BR	10	
CDR36BR391X_ _ _	391	390	J, K, M	BR	10	
CDR36BR471X_ _ _	471	470	J, K, M	BR	10	
CDR36BR561X_ _ _	561	560	J, K, M	BR	10	
CDR36BR681X_ _ _	681	680	J, K, M	BR	10	
CDR36BR821X_ _ _	821	820	J, K, M	BR	10	
CDR36BR102X_ _ _	102	1000	J, K, M	BR	10	
CDR36BR122X_ _ _	122	1200	J, K, M	BR	10	
CDR36BR152X_ _ _	152	1500	J, K, M	BR	10	
CDR36BR182X_ _ _	182	1800	J, K, M	BR	10	
CDR36BR222X_ _ _	222	2200	J, K, M	BR	10	
CDR36BR272X_ _ _	272	2700	J, K, M	BR	10	
CDR36BR332X_ _ _	332	3300	J, K, M	BR	10	
CDR36BR392X_ _ _	392	3900	J, K, M	BR	10	
CDR36BR472X_ _ _	472	4700	J, K, M	BR	10	
CDR36BR562X_ _ _	562	5600	J, K, M	BR	10	
CDR36BR682X_ _ _	682	6800	J, K, M	BR	10	
CDR36BR822X_ _ _	822	8200	J, K, M	BR	10	

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BR						
CDR36BR103X_ _ _	103	10 000	J, K, M	BR	10	
CDR36BR123X_ _ _	123	12 000	J, K, M	BR	10	
CDR36BR153X_ _ _	153	15 000	J, K, M	BR	10	
CDR36BR183X_ _ _	183	18 000	J, K, M	BR	10	
CDR36BR223X_ _ _	223	22 000	J, K, M	BR	10	
CDR36BR273X_ _ _	273	27 000	J, K, M	BR	10	
CDR36BR333X_ _ _	333	33 000	J, K, M	BR	10	
CDR36BR393X_ _ _	393	39 000	J, K, M	BR	10	
CDR36BR473X_ _ _	473	47 000	J, K, M	BR	10	
CDR36BR563X_ _ _	563	56 000	J, K, M	BR	10	
CDR36BR683X_ _ _	683	68 000	J, K, M	BR	10	
CDR36BR823X_ _ _	823	82 000	J, K, M	BR	10	
CDR36BR104X_ _ _	104	100 000	J, K, M	BR	10	
CDR36BR101Y_ _ _	101	100	J, K, M	BR	16	
CDR36BR121Y_ _ _	121	120	J, K, M	BR	16	
CDR36BR151Y_ _ _	151	150	J, K, M	BR	16	
CDR36BR181Y_ _ _	181	180	J, K, M	BR	16	
CDR36BR221Y_ _ _	221	220	J, K, M	BR	16	
CDR36BR271Y_ _ _	271	270	J, K, M	BR	16	
CDR36BR331Y_ _ _	331	330	J, K, M	BR	16	
CDR36BR391Y_ _ _	391	390	J, K, M	BR	16	
CDR36BR471Y_ _ _	471	470	J, K, M	BR	16	
CDR36BR561Y_ _ _	561	560	J, K, M	BR	16	
CDR36BR681Y_ _ _	681	680	J, K, M	BR	16	
CDR36BR821Y_ _ _	821	820	J, K, M	BR	16	
CDR36BR102Y_ _ _	102	1000	J, K, M	BR	16	
CDR36BR122Y_ _ _	122	1200	J, K, M	BR	16	
CDR36BR152Y_ _ _	152	1500	J, K, M	BR	16	
CDR36BR182Y_ _ _	182	1800	J, K, M	BR	16	
CDR36BR222Y_ _ _	222	2200	J, K, M	BR	16	
CDR36BR272Y_ _ _	272	2700	J, K, M	BR	16	
CDR36BR332Y_ _ _	332	3300	J, K, M	BR	16	
CDR36BR392Y_ _ _	392	3900	J, K, M	BR	16	
CDR36BR472Y_ _ _	472	4700	J, K, M	BR	16	
CDR36BR562Y_ _ _	562	5600	J, K, M	BR	16	
CDR36BR682Y_ _ _	682	6800	J, K, M	BR	16	
CDR36BR822Y_ _ _	822	8200	J, K, M	BR	16	
CDR36BR103Y_ _ _	103	10 000	J, K, M	BR	16	
CDR36BR123Y_ _ _	123	12 000	J, K, M	BR	16	
CDR36BR153Y_ _ _	153	15 000	J, K, M	BR	16	
CDR36BR183Y_ _ _	183	18 000	J, K, M	BR	16	
CDR36BR223Y_ _ _	223	22 000	J, K, M	BR	16	
CDR36BR273Y_ _ _	273	27 000	J, K, M	BR	16	
CDR36BR333Y_ _ _	333	33 000	J, K, M	BR	16	
CDR36BR393Y_ _ _	393	39 000	J, K, M	BR	16	
CDR36BR473Y_ _ _	473	47 000	J, K, M	BR	16	
CDR36BR563Y_ _ _	563	56 000	J, K, M	BR	16	
CDR36BR101Z_ _ _	101	100	J, K, M	BR	25	
CDR36BR121Z_ _ _	121	120	J, K, M	BR	25	
CDR36BR151Z_ _ _	151	150	J, K, M	BR	25	
CDR36BR181Z_ _ _	181	180	J, K, M	BR	25	
CDR36BR221Z_ _ _	221	220	J, K, M	BR	25	

Notes

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BR						
CDR36BR271Z_ _ _	271	270	J, K, M	BR	25	
CDR36BR331Z_ _ _	331	330	J, K, M	BR	25	
CDR36BR391Z_ _ _	391	390	J, K, M	BR	25	
CDR36BR471Z_ _ _	471	470	J, K, M	BR	25	
CDR36BR561Z_ _ _	561	560	J, K, M	BR	25	
CDR36BR681Z_ _ _	681	680	J, K, M	BR	25	
CDR36BR821Z_ _ _	821	820	J, K, M	BR	25	
CDR36BR102Z_ _ _	102	1000	J, K, M	BR	25	
CDR36BR122Z_ _ _	122	1200	J, K, M	BR	25	
CDR36BR152Z_ _ _	152	1500	J, K, M	BR	25	
CDR36BR182Z_ _ _	182	1800	J, K, M	BR	25	
CDR36BR222Z_ _ _	222	2200	J, K, M	BR	25	
CDR36BR272Z_ _ _	272	2700	J, K, M	BR	25	
CDR36BR332Z_ _ _	332	3300	J, K, M	BR	25	
CDR36BR392Z_ _ _	392	3900	J, K, M	BR	25	
CDR36BR472Z_ _ _	472	4700	J, K, M	BR	25	
CDR36BR562Z_ _ _	562	5600	J, K, M	BR	25	
CDR36BR682Z_ _ _	682	6800	J, K, M	BR	25	
CDR36BR822Z_ _ _	822	8200	J, K, M	BR	25	
CDR36BR103Z_ _ _	103	10 000	J, K, M	BR	25	
CDR36BR123Z_ _ _	123	12 000	J, K, M	BR	25	
CDR36BR153Z_ _ _	153	15 000	J, K, M	BR	25	
CDR36BR183Z_ _ _	183	18 000	J, K, M	BR	25	
CDR36BR223Z_ _ _	223	22 000	J, K, M	BR	25	
CDR36BR273Z_ _ _	273	27 000	J, K, M	BR	25	
CDR36BR333Z_ _ _	333	33 000	J, K, M	BR	25	
CDR36BR393Z_ _ _	393	39 000	J, K, M	BR	25	
CDR36BR473Z_ _ _	473	47 000	J, K, M	BR	25	
CDR36BR563Z_ _ _	563	56 000	J, K, M	BR	25	
CDR36BR101A_ _ _	101	100	J, K, M	BR	50	
CDR36BR121A_ _ _	121	120	J, K, M	BR	50	
CDR36BR151A_ _ _	151	150	J, K, M	BR	50	
CDR36BR181A_ _ _	181	180	J, K, M	BR	50	
CDR36BR221A_ _ _	221	220	J, K, M	BR	50	
CDR36BR271A_ _ _	271	270	J, K, M	BR	50	
CDR36BR331A_ _ _	331	330	J, K, M	BR	50	
CDR36BR391A_ _ _	391	390	J, K, M	BR	50	
CDR36BR471A_ _ _	471	470	J, K, M	BR	50	
CDR36BR561A_ _ _	561	560	J, K, M	BR	50	
CDR36BR681A_ _ _	681	680	J, K, M	BR	50	
CDR36BR821A_ _ _	821	820	J, K, M	BR	50	
CDR36BR102A_ _ _	102	1000	J, K, M	BR	50	
CDR36BR122A_ _ _	122	1200	J, K, M	BR	50	
CDR36BR152A_ _ _	152	1500	J, K, M	BR	50	
CDR36BR182A_ _ _	182	1800	J, K, M	BR	50	
CDR36BR222A_ _ _	222	2200	J, K, M	BR	50	
CDR36BR272A_ _ _	272	2700	J, K, M	BR	50	
CDR36BR332A_ _ _	332	3300	J, K, M	BR	50	
CDR36BR392A_ _ _	392	3900	J, K, M	BR	50	
CDR36BR472A_ _ _	472	4700	J, K, M	BR	50	

Notes

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MIL-C-55681 QUALIFIED, TYPE CDR						
MILITARY TYPE DESIGNATION	CAPACITANCE CODE	CAPACITANCE (pF)	CAPACITANCE TOLERANCE	RATED TEMP. AND VOLTAGE TEMP. LIMITS	VOLTAGE (DC)	RoHS STATUS
CDR36BR						
CDR36BR562A_ _ _	562	5600	J, K, M	BR	50	
CDR36BR682A_ _ _	682	6800	J, K, M	BR	50	
CDR36BR822A_ _ _	822	8200	J, K, M	BR	50	
CDR36BR103A_ _ _	103	10 000	J, K, M	BR	50	
CDR36BR123A_ _ _	123	12 000	J, K, M	BR	50	
CDR36BR153A_ _ _	153	15 000	J, K, M	BR	50	
CDR36BR183A_ _ _	183	18 000	J, K, M	BR	50	
CDR36BR223A_ _ _	223	22 000	J, K, M	BR	50	
CDR36BR273A_ _ _	273	27 000	J, K, M	BR	50	
CDR36BR101B_ _ _	101	100	J, K, M	BR	100	
CDR36BR121B_ _ _	121	120	J, K, M	BR	100	
CDR36BR151B_ _ _	151	150	J, K, M	BR	100	
CDR36BR181B_ _ _	181	180	J, K, M	BR	100	
CDR36BR221B_ _ _	221	220	J, K, M	BR	100	
CDR36BR271B_ _ _	271	270	J, K, M	BR	100	
CDR36BR331B_ _ _	331	330	J, K, M	BR	100	
CDR36BR391B_ _ _	391	390	J, K, M	BR	100	
CDR36BR471B_ _ _	471	470	J, K, M	BR	100	
CDR36BR561B_ _ _	561	560	J, K, M	BR	100	
CDR36BR681B_ _ _	681	680	J, K, M	BR	100	
CDR36BR821B_ _ _	821	820	J, K, M	BR	100	
CDR36BR102B_ _ _	102	1000	J, K, M	BR	100	
CDR36BR122B_ _ _	122	1200	J, K, M	BR	100	
CDR36BR152B_ _ _	152	1500	J, K, M	BR	100	
CDR36BR182B_ _ _	182	1800	J, K, M	BR	100	
CDR36BR222B_ _ _	222	2200	J, K, M	BR	100	
CDR36BR272B_ _ _	272	2700	J, K, M	BR	100	
CDR36BR332B_ _ _	332	3300	J, K, M	BR	100	
CDR36BR392B_ _ _	392	3900	J, K, M	BR	100	
CDR36BR472B_ _ _	472	4700	J, K, M	BR	100	
CDR36BR562B_ _ _	562	5600	J, K, M	BR	100	
CDR36BR682B_ _ _	682	6800	J, K, M	BR	100	
CDR36BR822B_ _ _	822	8200	J, K, M	BR	100	

Notes

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- Not RoHS-compliant



TAPE AND REEL QUANTITIES (1)(2)(3)								
STYLES	BODY SIZE	TAPE SIZE	7" REEL QUANTITIES			11 1/4" AND 13" REEL QUANTITIES		BULK
			PACKAGING CODE			PACKAGING CODE		
			"C"	"T"	"J"	"P"	"R"	
CDR37	0402	8 mm	5000	n/a	1000	10 000	n/a	100
CDR36	0603	8 mm	4000	n/a	1000	10 000	n/a	100
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	2000	500	n/a	10 000	100
CDR03	1808	12 mm	n/a	2000	500	n/a	10 000	100
CDR04, CDR34	1812	12 mm	n/a	1000	500	n/a	4000	100
CDR35	1825	12 mm	n/a	1000	500	n/a	4000	100
CDR06	2225	12 mm	n/a	500	250	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

STORAGE AND HANDLING CONDITIONS
<p>(1) Store the components at 5 °C to +40 °C ambient temperature and ≤ 70 % related humidity conditions</p> <p>(2) The product is recommended to be used within a time-frame of 2 years after shipment. Check solderability in case extended shelf life beyond the expiry date is needed</p> <p>Precautions:</p> <ul style="list-style-type: none"> a. Do not store products in an environment containing corrosive elements, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. This may cause corrosion or oxidization of the terminations, which can easily lead to poor soldering b. Store products on the shelf and avoid exposure to moisture or dust c. Do not expose products to excessive shock, vibration, direct sunlight and so on



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