

Vishay Vitramon

HALOGEN

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 <u>www.vishay.com/doc?99912</u>

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: 50 V_{DC} to 100 V_{DC}

Temperature Coefficient of Capacitance (TCC):

BP: 0 ppm/°C \pm 30 ppm/°C from -55 °C to +125 °C, with 0 V_{DC} applied

BX: \pm 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

Dissipation Factor (DF):

Revision: 25-Jul-17

BP: 0.15 % maximum
BX: 2.50 % 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 BX: 1 % maximum per decade

Insulation Resistance (IR):

at +25 °C and rated voltage 100 000 M Ω minimum or 1000 Ω F, 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

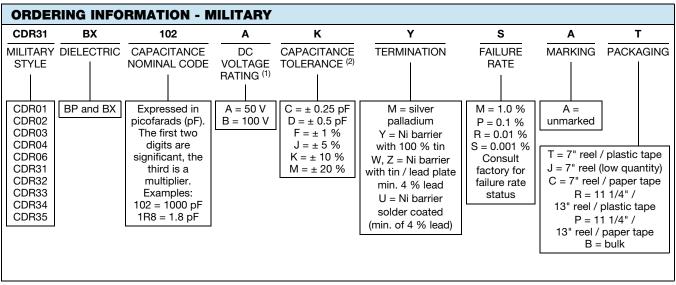
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QUICK REFERE	NCE DATA			
DIELECTRIC	CTVLE (CACE)	MAXIMUM VOLTAGE	CAPAC	ITANCE
DIELECTRIC	STYLE (CASE)	(V)	MINIMUM	MAXIMUM
BP	CDR01 (0805)	100	10 pF	180 pF
BX	CDR01 (0805)	100	120 pF	4.7 nF
BP	CDR02 (1805)	100	220 pF	270 pF
BX	CDR02 (1805)	100	3.9 nF	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

Note

· Detail ratings see selection chart



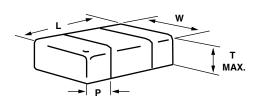
Notes

⁽¹⁾ DC voltage rating should not be exceeded in application. Other application factors may affect the MLCC performance. Consult for questions: mlcc@vishav.com

⁽²⁾ Available tolerances please see rating chart

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DIMENSIONS in inches (millimeters)



MIL-PRF-55681	STYLE	LENGTH	WIDTH	MAXIMUM	TERM	M. (P)
WIIL-PRF-5500 I	SITLE	(L)	(W)	THICKNESS (T)	MINIMUM	MAXIMUM
	CDR01	$0.080 \pm 0.015 (2.03 \pm 0.38)$	$0.050 \pm 0.015 (1.27 \pm 0.38)$	0.055 (1.40)	0.010 (0.25)	0.030 (0.75)
/1	CDR02	$0.180 \pm 0.015 (4.57 \pm 0.38)$	$0.050 \pm 0.015 (1.27 \pm 0.38)$	0.055 (1.40)	0.010 (0.25)	0.030 (0.75)
/1	CDR03	$0.180 \pm 0.015 (4.57 \pm 0.38)$	$0.080 \pm 0.015 (2.03 \pm 0.38)$	0.080 (2.03)	0.010 (0.25)	0.030 (0.75)
	CDR04	$0.180 \pm 0.015 (4.57 \pm 0.38)$	$0.125 \pm 0.015 (3.20 \pm 0.38)$	0.080 (2.03)	0.010 (0.25)	0.030 (0.75)
/3	CDR06	0.225 ± 0.020 (5.72 ± 0.51)	$0.250 \pm 0.020 (6.35 \pm 0.51)$	0.080 (2.03)	0.010 (0.25)	0.030 (0.75)
/7	CDR31	0.078 ± 0.008 (2.00 ± 0.20)	$0.049 \pm 0.008 (1.25 \pm 0.20)$	0.051 (1.30)	0.012 (0.30)	0.028 (0.70)
/8	CDR32	0.125 ± 0.008 (3.20 ± 0.20)	$0.062 \pm 0.008 (1.60 \pm 0.20)$	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	$0.176 \pm 0.010 \ (4.50 \pm 0.25)$	$0.125 \pm 0.010 \ (3.20 \pm 0.25)$	0.059 (1.50)	0.010 (0.25)	0.030 (0.75)
/11	CDR35	$0.176 \pm 0.012 (4.50 \pm 0.30)$	$0.250 \pm 0.012 (6.40 \pm 0.30)$	0.059 (1.50)	0.008 (0.20)	0.032 (0.80)

MIL-C-55681 QL	JALIFIED, TYP	E 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	
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	
CDR01BP121B	121	120	J, K	BP	100	
CDR01BP151B	151	150	J, K	BP	100	
CDR01BP181B	181	180	J, K	BP	100	

Notes

RoHS-compliant except when supplied with lead (Pb)-containing terminations, codes "W", "Z", and "U"

Not RoHS-compliant



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MILITARY TYPE	CAPACITANCE	CAPACITANCE	CAPACITANCE	RATED TEMP. AND	VOLTAGE	RoHS
DESIGNATION	CODE	(pF)	TOLERANCE	VOLTAGE TEMP. LIMITS	(DC)	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		2.0				
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	220	22 000	13, 101	BA BA	30	
CDR03BP331B	331	330	J, K	BP	100	
CDR03BP391BJ	391	390	J, K	BP	100	
CDR03BP471B	471	470	J, K	BP	100	
CDR03BP561BJ	561	560	J, K	BP	100	
CDR03BP681B	681	680	J, K	BP BP	100	
CDR03BP681B	821	820	J, K J	BP BP	100	
CDR03BP821BJ CDR03BP102B	102	1000	J, K	BP BP	100	
	102	1000	J, N	ВР	100	
CDR03BX	100	10,000	I/	DV	100	
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	CAPACITANCE	CAPACITANCE	CAPACITANCE	RATED TEMP. AND	VOLTAGE	RoHS
DESIGNATION	CODE	(pF)	TOLERANCE	VOLTAGE TEMP. LIMITS	(DC)	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	1	•				
CDR06BX394AK	394	390 000	K	BX	50	
CDR06BX474A	474	470 000	K, M	BX	50	
CDR31BP			I.			
CDR31BP1R0B	1R0	1	С	BP	100	
CDR31BP1R1B	1R1	1.1	С	BP	100	
CDR31BP1R2B	1R2	1.2	С	BP	100	
CDR31BP1R3B	1R3	1.3	С	BP	100	
CDR31BP1R5B	1R5	1.5	С	BP	100	
CDR31BP1R6B	1R6	1.6	С	BP	100	
CDR31BP1R8B	1R8	1.8	С	BP	100	
CDR31BP2R0B	2R0	2	С	BP	100	
CDR31BP2R2B	2R2	2.2	С	BP	100	
CDR31BP2R4B	2R4	2.4	С	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	
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	
VIVIOUDE TOOD	100	10	i⁻, ∪, r∖	l DE	100	

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MILITARY TYPE	CAPACITANCE	CAPACITANCE	CAPACITANCE	RATED TEMP. AND	VOLTAGE	RoHS
DESIGNATION	CODE	(pF)	TOLERANCE	VOLTAGE TEMP. LIMITS	(DC)	STATUS
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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MILITARY TYPE	CAPACITANCE	CAPACITANCE	CAPACITANCE	RATED TEMP. AND	VOLTAGE	RoHS
DESIGNATION	CODE	(pF)	TOLERANCE	VOLTAGE TEMP. LIMITS	(DC)	STATUS
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	1	•	•			
CDR32BP1R0B	1R0	1	С	BP	100	
CDR32BP1R1B	1R1	1.1	С	BP	100	
CDR32BP1R2B	1R2	1.2	С	BP	100	
CDR32BP1R3B	1R3	1.3	С	BP	100	
CDR32BP1R5B	1R5	1.5	С	BP	100	
CDR32BP1R6B	1R6	1.6	С	BP	100	
CDR32BP1R8B	1R8	1.8	С	BP	100	
CDR32BP2R0B	2R0	2	С	BP	100	
CDR32BP2R2B	2R2	2.2	С	BP	100	
CDR32BP2R4B	2R4	2.4	С	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	

Notes



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MILITARY TYPE	CAPACITANCE	CAPACITANCE	CAPACITANCE	RATED TEMP. AND	VOLTAGE	RoHS
DESIGNATION	CODE	(pF)	TOLERANCE	VOLTAGE TEMP. LIMITS	(DC)	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	201	220		BP	100	
CDR32BP241B	241	240	F, J, K F, J, K	BP	100	
CDR32BP271B	271	270	F, J, K	BP	100	
CDR32BP301B	301	300	F, J, K	BP BP	100	
CDR32BP331B CDR32BP361B	331	330	F, J, K	BP BP	100	
	361	360	F, J, K		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	

Notes



Vishay Vitramon

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

Notes



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MIL-C-55681 QI	CAPACITANCE	CAPACITANCE	CAPACITANCE	RATED TEMP. AND	VOLTAGE	RoHS
DESIGNATION	CODE	(pF)	TOLERANCE	VOLTAGE TEMP. LIMITS	(DC)	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	· L	l			I	
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		.0000		2/1		
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 BP	100	
CDR35BP912B	912	9100	F, J, K	BP	100	
CDR35BP103B	103	10 000	F, J, K	BP	100	
CDR35BP103B	113	11 000	F, J, K	BP	50	
CDR35BP113A	123	12 000		BP	50	
			F, J, K			
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	

Notes



Vishay Vitramon

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

Notes

RoHS-compliant except when supplied with lead (Pb)-containing terminations, codes "W", "Z", and "U"

Not RoHS-compliant

TAPE A	ND REEL (QUANTITIE	S (1)(2)(3)					
			7" F	7" REEL QUANTITIES			REEL QUANTITIES	BULK
STYLES	BODY SIZE	TAPE SIZE	PACKAGING CODE			PACKAG	BULK	
			"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	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

- (1) Store the components at 5 °C to +40 °C ambient temperature and ≤ 70 % related humidity conditions.
- (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.

Precautions:

- 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.



Legal Disclaimer Notice

Vishay

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