



HOW TO ORDER

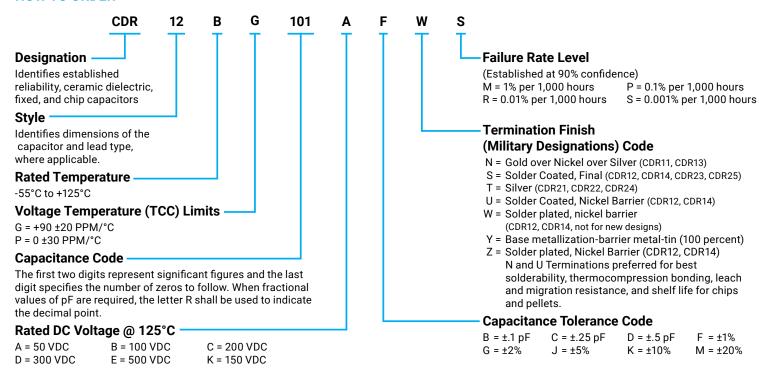


TABLE I - STYLES CDR11 AND CDR12 CAPACITOR CHARACTERISTICS

Type Designation *	Capacitance Range (pF)	Capacitance Tolerance Available	Rated Temp. & Voltage-Temp Limits	Rated DC Voltage
CDR1-B-0R1KB to CDR1-B-0R2B	0.1 pF to 0.2 pF	В		
CDR1-B-0R3K to CDR1-B-0R4	0.3 pF to 0.4 pF	B, C	Characteristic BG	
CDR1-B-0R5K to CDR1-B-2R2**	0.5 pF to 2.2 pF	B, C, D	(+90 ±20 PPM/°C) and Characteristic BP	A = 50
CDR1-B-2R4K to CDR1-B-6R2***	2.4 pF to 6.2 pF	B, C, D		K = 150
CDR1-B-6R8K to CDR1-B-9R1***	6.8 pF to 9.1 pF	B, C, J, K, M	(0 ±30 PPM/°C)	
CDR1-B-100K to CDR1-B-101K***	10 pF to 100 pF	F, G, J, K, M		
CDR1-BP111K to CDR1-BP621***	110 pF to 620 pF	F, G, J, K, M	BP	A = 50
CDR1-BP681A to CDR1-BP102***	680 pF to 1000 pF	F, G, J, K, M	DF	B = 100

TABLE II - STYLES CDR13 AND CDR14 CAPACITOR CHARACTERISTICS

Type Designation *	Capacitance Range (pF)	Capacitance Tolerance Available	Rated Temp. & Voltage-Temp Limits	Rated DC Voltage
CDR1-B-0R1EB to CDR1-B-0R2B	0.1 pF to 0.2 pF	В		
CDR1-B-0R3E to CDR1-B-0R4	0.3 pF to 0.4 pF	B, C		
CDR1-B-0R5E to CDR1-B-2R2**	0.5 pF to 2.2 pF	B, C, D		C = 200
CDR1-B-2R4E to CDR1-B-6R2***	2.4 pF to 6.2 pF	B, C, D	"Characteristic BG	E = 500
CDR1-B-6R8E to CDR1-B-9R1***	6.8 pF to 9.1 pF	B, C, J, K, M	(+90 ±20 PPM/°C)	
CDR1-B-100E to CDR1-B-101***	10 pF to 100 pF		and Characteristic BP	
CDR1-B-111D to CDR1-B-201***	110 pF to 200 pF		(0 ±30 PPM/°C)"	C = 200 D = 300
CDR1-B-221C to CDR1-B-471C***	220 pF to 470 pF	FC LVM		C = 200
CDR1-B-511B to CDR1-B-621***	510 pF to 620 pF	F, G, J, K, M		A = 50 B = 100
CDR1-B-681A to CDR1-B-102A***	680 pF to 1000 pF			A = 50
CDR1-BP112A to CDR1-BP512A***	1100 pF to 5100 pF		BP	A - 50

^{*} Complete type designation will include additional symbols to indicate style, voltage-temperature limits, capacitance tolerance (where applicable), termination finish, and failure rate level.

^{**} Intermediate values in this category are in 0.1 pF steps.

^{***} Intermediate values in each category are given by the RETMA 5% Table.





TABLE I - STYLES CDR11 AND CDR12 CAPACITOR CHARACTERISTICS

Type Designation *	Capacitance Range (pF)	Capacitance Tolerance Available	Rated Temp. & Voltage-Temp Limits	Rated DC Voltage
CDR2-B-0R1EB to CDR2-B-0R2EB	0.1 pF to 0.2 pF	В		
CDR2-B-0R3E to CDR2-B-0R4E	0.3 pF to 0.4 pF	B, C		
CDR2-B0R5E to CDR2-B-2R2E**	0.5 pF to 2.2 pF	B, C, D		500 = E
CDR2-B-2R4E to CDR2-B-6R2E***	2.4 pF to 6.2 pF	B, C, D	Characteristic BG	300 - E
CDR2-B-6R8E to CDR2-B-9R1E***	6.8 pF to 9.1 pF	B, C, J, K, M	(+90 ±20 PPM/°C)	
CDR21-B-100E to CDR2-B-101E***	10 pF to 100 pF		and Characteristic BP	
CDR2-B-111D to CDR2-B-201D***	110 pF to 200 pF		(0 ±30 PPM/°C)	300 = D
CDR2-B-221C to CDR2-B-471C***	220 pF to 470 pF			200 = C
CDR2-B-511B to CDR2-B-621B***	510 pF to 620 pF	F, G, J, K, M		100 = B
CDR2-B-681A to CDR2-B-102A***	680 pF to 1000 pF			50 = A
CDR2-BP112A to CDR2-BP512A***	1100 pF to 5100 pF		BP	50 = A

^{*} Complete type designation will include additional symbols to indicate style, voltage-temperature limits, capacitance tolerance (where applicable), termination finish (T for styles CDR21, CDR22 and CDR24, and S for styles CDR23 and CDR25), and failure rate level. Please note: Leaded devices CDR 21 through CDR 25 are available to the R Failure Rate Level only.

TABLE I - STYLES CDR11 AND CDR12 CAPACITOR CHARACTERISTICS

MIL-PRF-55681	Case	Type	Outlines	Body Dimensions			Lea	d & Terminat	ion	
Styles	Size	Туре	Outlines	Length	Width	Thickness	Dime	nsions & Mat	erials	
CDR 11	A	Chip CA	<u></u> <u>w</u>			$(1.4 \pm 0.38) \qquad (0.51/1.45) N = Gold Over Nickel Over Silver I$			r Silver N is	
CDR 13	B ₩	Chip CA	W/T is a Termination Surface	.110 (2.79 :		.030/.102 (0.76/2.59)	ATC's UNI-TERM®			
CDE 12	A ₩	Pellet P	<u></u>	.055 ±.025 (1.4 ±0.63)	.055 ±.015 (1.4 ±0.38)	.020/.057 (0.51/1.45)		Coated, Final		
CDR 14	B ₩	Pellet P	$ \begin{array}{c c} $.110 +.035020 (2.79 +0.89 -0.51)	.110 ±.020 (2.79 ±0.51)	.030/.102 (0.76/2.59)	U = Solder Coated, Nickel Barrier U is ATC's BARRIER//CAP®			
CDR 12	A ₩	Solder Plate W	<u></u>	.055 : (1.4 ±		.020/.057 (0.51/1.45)				
CDR 14	B ₩	Solder Plate W	$ \begin{array}{c c} & \downarrow & \downarrow & \uparrow & \downarrow & \uparrow \\ \hline & W/T \text{ is a} \\ \hline & Termination Surface} \end{array} $.110 ±.020 (2.79 ±0.51)		.030/.102 (0.76/2.59)	W = Nickel Barrier, Solder Plate.			
CDR 21	B	Microstrip	↓ → L _L ← _↓ → ←				Terr	nination T = S	ilver	
ODNZI		MS	<u>W</u> .				Length	Width	Thickness	
CDR 22	B							min.		
CDR 24	B	AR Radial Ribbon RR		.135 ±.015 (3.43 ±0.38)	.110 ±.015 (2.79 ±0.38)	.060/.100 (1.52/2.54)	.250 (6.35)	.093±.005 (2.36±0.13)	.004±.001 (0.10±0.03)	
CDR 23	В	Radial Wire	→ \ \ \ + \ \ \ + \ \ + \ \ \ + \ \ + \ \ \ + \ \ \ + \ \ \ + \ \ \ \ + \ \ \ \ \ \ + \				Terminat	ions S = Solde	er Coated	
CDR 23		RW	→ L ← → W ←				min.	#26	AWG	
CDR 25	B	Axial Wire AW	→ L				.50 (12.7)	.0. (.3: dia. r	75)	

All dimensions are in inches, except those in parentheses which are in millimeters.

All leads and ribbon are silver and are attached with high temperature solder.

^{**} Intermediate values in this category are in 0.1 pF steps.

^{***} Intermediate values in each category are given by the RETMA 5% Table as follows: 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91.



CDR Series - MIL-PRF-55681/4/5 (RF/Microwave Chips)

Style	Equiv. KYOCERA AVX Part No. Characteristics			
	BG	ВР		
CDR11	100A	700A		
CDR12	100A	700A		
CDR13	100B	700B		
CDR14	100B	700B		

Style	Equiv. KYOCERA AVX Part No. Characteristics			
	BG	BP		
CDR21	100B MS	700B MS		
CDR22	100B AR	700B AR		
CDR23	100B RW	700B RW		
CDR24	100B RR	700B RR		
CDR25	100B AW	700B AW		

PACKAGING

Standard Packaging Quantity CDR11-12 = 100 pcs per waffle pack CDR13-14 = 100 pcs per waffle pack

TAPE & REEL

All tape and reel specifications are in compliance with EIA RS481(equivalent to IEC 286 part 3). Sizes CDR11/12 through 13/14.

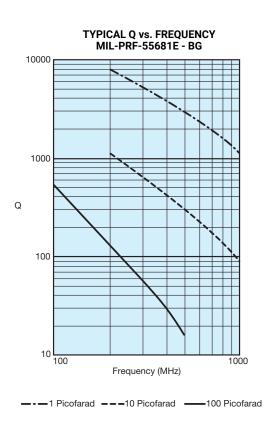
8mm carrier

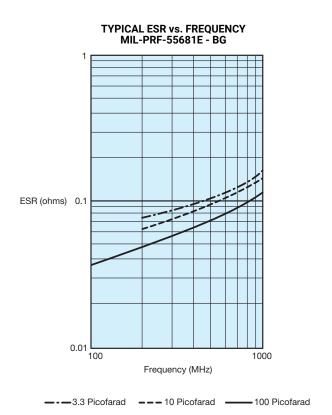
⁻⁷" reel: ≤0.040" thickness = 100, 300, 500, 1000, 2000* pcs ≤0.075" thickness = 100, 300, 500, 1000, 2000* pcs

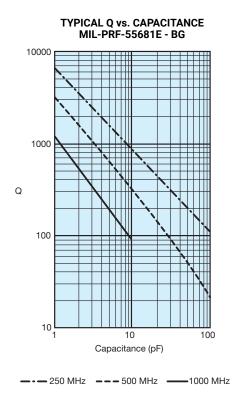
^{*} QTY 2000 only applies to CDR11-12

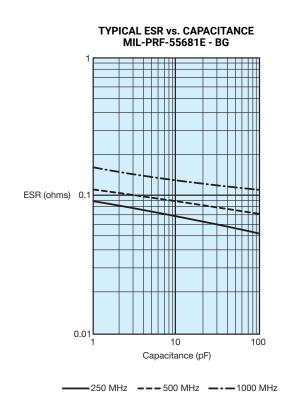






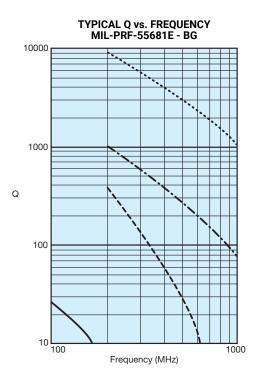




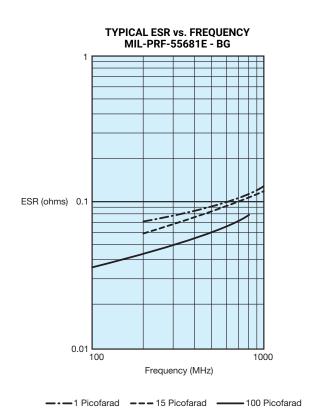


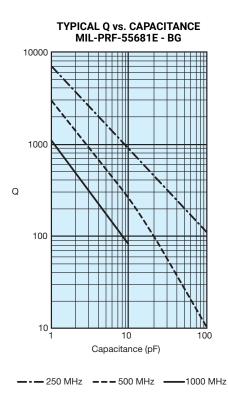


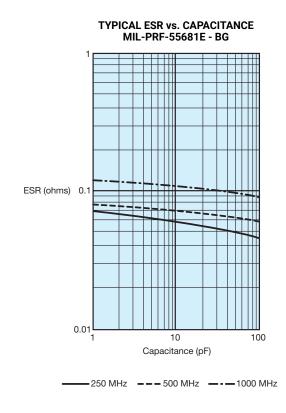






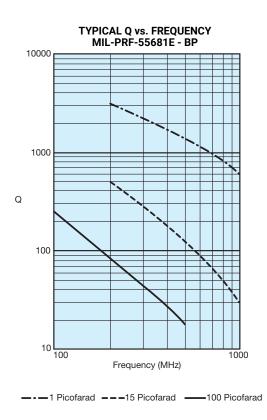


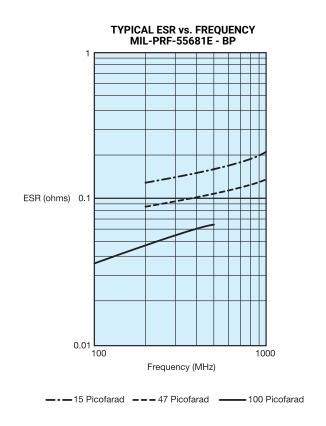


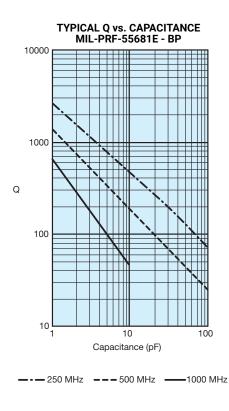


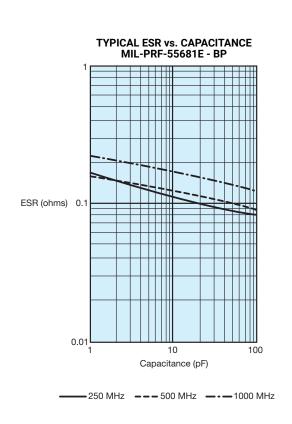






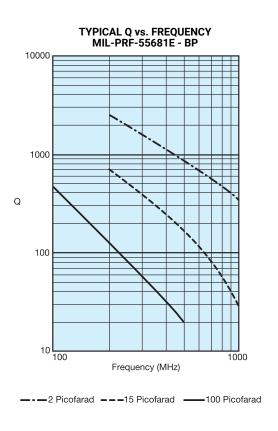


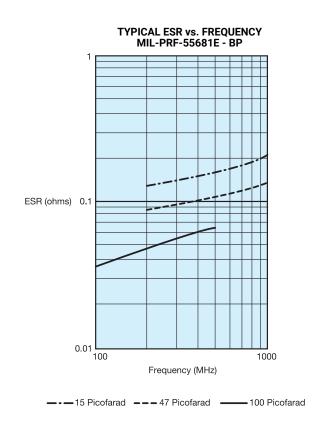


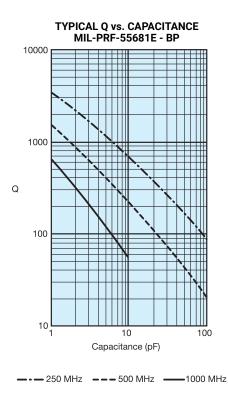


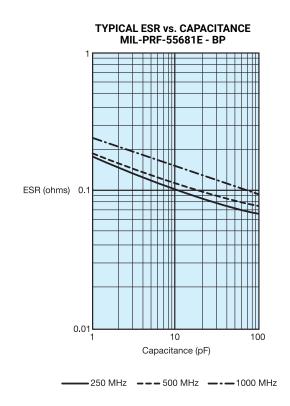
Performance Curves





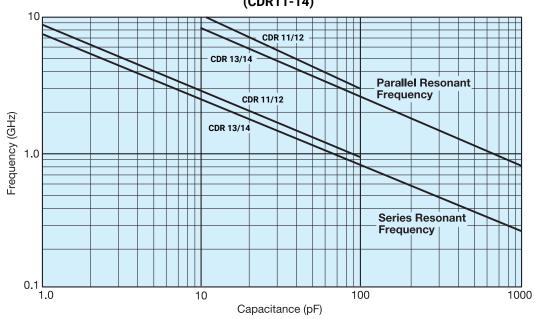








TYPICAL RESONANT FREQUENCY vs. CAPACITANCE (CDR11-14)



041621