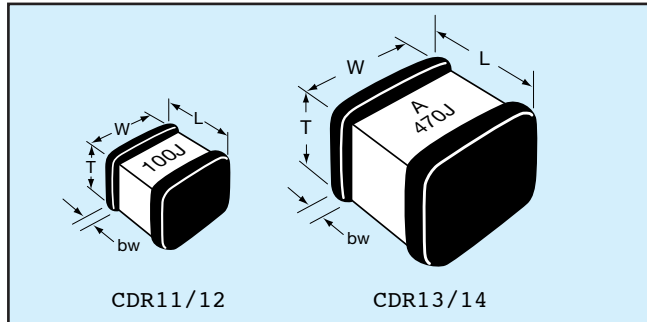


Microwave MLC's



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

MILITARY DESIGNATION PER MIL-PRF-55681



CROSS REFERENCE: AVX/MIL-PRF-55681

Per MIL-C-55681	AVX Style	Length (L)	Width (W)	Thickness (T)		Termination Band (bw)	
				Max	Min	Max	Min
CDR11	AQ11	.055±.015 (1.40±.381)	.055±.015 (1.40±.381)	.057 (1.45)	.020 (.508)	.020 (.508)	.005 (.127)
CDR12	AQ12	.055±.025 (1.40±.635)	.055±.015 (1.40±.381)	.057 (1.45)	.020 (.508)	.020 (.508)	.005 (.127)
CDR13	AQ13	.110±.020 (2.79±.508)	.110±.020 (2.79±.508)	.102 (2.59)	.030 (.762)	.025 (.635)	.005 (.127)
CDR14	AQ14	.110 +.035 -0.020 (2.79 +.889 -.508)	.110±.020 (2.79±.508)	.102 (2.59)	.030 (.762)	.025 (.635)	.005 (.127)

HOW TO ORDER

CDR12

MIL Style
CDR11, CDR12,
CDR13, CDR14

BG

**Voltage
Temperature
Limits**

BG = +90±20 ppm/°C with and without
rated voltage from -55°C to +125°C
BP = 0±30ppm/°C with and without
rated voltage from -55°C to +125°C

101

Capacitance

EIA Capacitance Code in pF.
First two digits = significant figures
or "R" for decimal place.
Third digit = number of zeros or
after "R" significant figures.

A

**Rated Voltage
Code**

A = 50V
B = 100V
C = 200V
D = 300V
E = 500V

K

**Capacitance
Tolerance
Code**

B = ±.1 pF
C = ±.25 pF
D = ±.5 pF
F = ±1%
G = ±2%
J = ±5%
K = ±10%
M = ±20%

U

**Termination
Finish (Military
Designations)
Code**

M = Palladium silver
N = Silver-nickel-gold
S = Solder coated final with a minimum of
4 percent lead
T = Silver
U = Base metallization-barrier metal-solder coated
(tin/lead alloy, with a minimum of 4 percent lead)
W = Base metallization-barrier metal-tinned (tin or
tin/lead alloy)
Y = Base metallization-barrier metal-tin (100 per-
cent)
Z = Base metallization-barrier metal-tinned
(tin/lead alloy, with a minimum of 4 percent lead)
*See MIL-PRF-55681 Specification for more details

S

**Failure Rate
Level**

M = 1.0%
P = .1%
R = .01%
S = .001%

PACKAGING

Standard Packaging Quantity

CDR11-12 = 100 pcs per waffle pack

CDR13-14 = 80 pcs per waffle pack

TAPE & REEL: All tape and reel specifications are in compliance with EIA RS481
(equivalent to IEC 286 part 3).

Sizes SQCA through SQCB, CDR11/12 through 13/14.

- 8mm carrier
- 7" reel: ≤0.040" thickness = 2000 pcs
≤0.075" thickness = 2000 pcs
- 13" reel: ≤0.075" thickness = 10,000 pcs

Not RoHS Compliant



For RoHS compliant products,
please select correct termination style.



Microwave MLC's



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

TABLE I: STYLES CDR11 AND CDR12 CAPACITOR CHARACTERISTICS

Type Designation 1/	Capacitance in pF	Capacitance tolerance	Rated temperature and V/Temperature	WVDC	Type Designation 1/	Capacitance in pF	Capacitance tolerance	Rated temperature and V/Temperature	WVDC
CDR1 -B-0R1AB--	0.1	B	BG, BP	50	CDR1 -B-300A--	30	F, G, J, K, M	BG, BP	50
CDR1 -B-0R2AB--	0.2	B	BG, BP	50	CDR1 -B-330A--	33	F, G, J, K, M	BG, BP	50
CDR1 -B-0R3A--	0.3	B, C	BG, BP	50	CDR1 -B-360A--	36	F, G, J, K, M	BG, BP	50
CDR1 -B-0R4A--	0.4	B, C	BG, BP	50	CDR1 -B-390A--	39	F, G, J, K, M	BG, BP	50
CDR1 -B-0R5A--	0.5	B, C, D	BG, BP	50	CDR1 -B-430A--	43	F, G, J, K, M	BG, BP	50
CDR1 -B-0R6A--	0.6	B, C, D	BG, BP	50	CDR1 -B-470A--	47	F, G, J, K, M	BG, BP	50
CDR1 -B-0R7A--	0.7	B, C, D	BG, BP	50	CDR1 -B-510A--	51	F, G, J, K, M	BG, BP	50
CDR1 -B-0R8A--	0.8	B, C, D	BG, BP	50	CDR1 -B-560A--	56	F, G, J, K, M	BG, BP	50
CDR1 -B-0R9A--	0.9	B, C, D	BG, BP	50	CDR1 -B-620A--	62	F, G, J, K, M	BG, BP	50
CDR1 -B-1R0A--	1.0	B, C, D	BG, BP	50	CDR1 -B-680A--	68	F, G, J, K, M	BG, BP	50
CDR1 -B-1R1A--	1.1	B, C, D	BG, BP	50	CDR1 -B-750A--	75	F, G, J, K, M	BG, BP	50
CDR1 -B-1R2A--	1.2	B, C, D	BG, BP	50	CDR1 -B-820A--	82	F, G, J, K, M	BG, BP	50
CDR1 -B-1R3A--	1.3	B, C, D	BG, BP	50	CDR1 -B-910A--	91	F, G, J, K, M	BG, BP	50
CDR1 -B-1R4A--	1.4	B, C, D	BG, BP	50	CDR1 -B-101A--	100	F, G, J, K, M	BG, BP	50
CDR1 -B-1R5A--	1.5	B, C, D	BG, BP	50	CDR1 -B-111A--	110	F, G, J, K, M	BP	50
CDR1 -B-1R6A--	1.6	B, C, D	BG, BP	50	CDR1 -B-121A--	120	F, G, J, K, M	BP	50
CDR1 -B-1R7A--	1.7	B, C, D	BG, BP	50	CDR1 -B-131A--	130	F, G, J, K, M	BP	50
CDR1 -B-1R8A--	1.8	B, C, D	BG, BP	50	CDR1 -B-151A--	150	F, G, J, K, M	BP	50
CDR1 -B-1R9A--	1.9	B, C, D	BG, BP	50	CDR1 -B-161A--	160	F, G, J, K, M	BP	50
CDR1 -B-2R0A--	2.0	B, C, D	BG, BP	50	CDR1 -B-181A--	180	F, G, J, K, M	BP	50
CDR1 -B-2R1A--	2.1	B, C, D	BG, BP	50	CDR1 -B-201A--	200	F, G, J, K, M	BP	50
CDR1 -B-2R2A--	2.2	B, C, D	BG, BP	50	CDR1 -B-221A--	220	F, G, J, K, M	BP	50
CDR1 -B-2R4A--	2.4	B, C, D	BG, BP	50	CDR1 -B-241A--	240	F, G, J, K, M	BP	50
CDR1 -B-2R7A--	2.7	B, C, D	BG, BP	50	CDR1 -B-271A--	270	F, G, J, K, M	BP	50
CDR1 -B-3R0A--	3.0	B, C, D	BG, BP	50	CDR1 -B-301A--	300	F, G, J, K, M	BP	50
CDR1 -B-3R3A--	3.3	B, C, D	BG, BP	50	CDR1 -B-331A--	330	F, G, J, K, M	BP	50
CDR1 -B-3R6A--	3.6	B, C, D	BG, BP	50	CDR1 -B-361A--	360	F, G, J, K, M	BP	50
CDR1 -B-3R9A--	3.9	B, C, D	BG, BP	50	CDR1 -B-391A--	390	F, G, J, K, M	BP	50
CDR1 -B-4R3A--	4.3	B, C, D	BG, BP	50	CDR1 -B-431A--	430	F, G, J, K, M	BP	50
CDR1 -B-4R7A--	4.7	B, C, D	BG, BP	50	CDR1 -B-471A--	470	F, G, J, K, M	BP	50
CDR1 -B-5R1A--	5.1	B, C, D	BG, BP	50	CDR1 -B-511A--	510	F, G, J, K, M	BP	50
CDR1 -B-5R6A--	5.6	B, C, D	BG, BP	50	CDR1 -B-561A--	560	F, G, J, K, M	BP	50
CDR1 -B-6R2A--	6.2	B, C, D	BG, BP	50	CDR1 -B-621A--	620	F, G, J, K, M	BP	50
CDR1 -B-6R8A--	6.8	B, C, J, K, M	BG, BP	50	CDR1 -B-681A--	680	F, G, J, K, M	BP	50
CDR1 -B-7R5A--	7.5	B, C, J, K, M	BG, BP	50	CDR1 -B-751A--	750	F, G, J, K, M	BP	50
CDR1 -B-8R2A--	8.2	B, C, J, K, M	BG, BP	50	CDR1 -B-821A--	820	F, G, J, K, M	BP	50
CDR1 -B-9R1A--	9.1	B, C, J, K, M	BG, BP	50	CDR1 -B-911A--	910	F, G, J, K, M	BP	50
CDR1 -B-100A--	10	F, G, J, K, M	BG, BP	50	CDR1 -B-102A--	1000	F, G, J, K, M	BP	50
CDR1 -B-110A--	11	F, G, J, K, M	BG, BP	50					
CDR1 -B-120A--	12	F, G, J, K, M	BG, BP	50					
CDR1 -B-130A--	13	F, G, J, K, M	BG, BP	50					
CDR1 -B-150A--	15	F, G, J, K, M	BG, BP	50					
CDR1 -B-160A--	16	F, G, J, K, M	BG, BP	50					
CDR1 -B-180A--	18	F, G, J, K, M	BG, BP	50					
CDR1 -B-200A--	20	F, G, J, K, M	BG, BP	50					
CDR1 -B-220A--	22	F, G, J, K, M	BG, BP	50					
CDR1 -B-240A--	24	F, G, J, K, M	BG, BP	50					
CDR1 -B-270A--	27	F, G, J, K, M	BG, BP	50					

1/Complete type designation will include additional symbols to indicate style, voltage-temperature limits, capacitance tolerance (where applicable), termination finish ("M" or "N" for style CDR11, and "S", "U", "W", "Y" or "Z" for style CDR12) and failure rate level.

Microwave MLC's



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

TABLE II: STYLES CDR13 AND CDR14 CAPACITOR CHARACTERISTICS

Type Designation 1/	Capacitance in pF	Capacitance tolerance	Rated temperature and V/Temperature	WVDC	Type Designation 1/	Capacitance in pF	Capacitance tolerance	Rated temperature and V/Temperature	WVDC
CDR1 -B-0R1*B--	0.1	B	BG, BP	200/500	CDR1 -B-560*---	56	F, G, J, K, M	BG, BP	200/500
CDR1 -B-0R2*B--	0.2	B	BG, BP	200/500	CDR1 -B-620*---	62	F, G, J, K, M	BG, BP	200/500
CDR1 -B-0R3*---	0.3	B, C	BG, BP	200/500	CDR1 -B-680*---	68	F, G, J, K, M	BG, BP	200/500
CDR1 -B-0R4*---	0.4	B, C	BG, BP	200/500	CDR1 -B-750*---	75	F, G, J, K, M	BG, BP	200/500
CDR1 -B-0R5*---	0.5	B, C, D	BG, BP	200/500	CDR1 -B-820*---	82	F, G, J, K, M	BG, BP	200/500
CDR1 -B-0R6*---	0.6	B, C, D	BG, BP	200/500	CDR1 -B-910*---	91	F, G, J, K, M	BG, BP	200/500
CDR1 -B-0R7*---	0.7	B, C, D	BG, BP	200/500	CDR1 -B-101*---	100	F, G, J, K, M	BG, BP	200/500
CDR1 -B-0R8*---	0.8	B, C, D	BG, BP	200/500	CDR1 -B-111‡---	110	F, G, J, K, M	BG, BP	200/300
CDR1 -B-0R9*---	0.9	B, C, D	BG, BP	200/500	CDR1 -B-121‡---	120	F, G, J, K, M	BG, BP	200/300
CDR1 -B-1R0*---	1.0	B, C, D	BG, BP	200/500	CDR1 -B-131‡---	130	F, G, J, K, M	BG, BP	200/300
CDR1 -B-1R1*---	1.1	B, C, D	BG, BP	200/500	CDR1 -B-151‡---	150	F, G, J, K, M	BG, BP	200/300
CDR1 -B-1R2*---	1.2	B, C, D	BG, BP	200/500	CDR1 -B-161‡---	160	F, G, J, K, M	BG, BP	200/300
CDR1 -B-1R3*---	1.3	B, C, D	BG, BP	200/500	CDR1 -B-181‡---	180	F, G, J, K, M	BG, BP	200/300
CDR1 -B-1R4*---	1.4	B, C, D	BG, BP	200/500	CDR1 -B-201‡---	200	F, G, J, K, M	BG, BP	200/300
CDR1 -B-1R5*---	1.5	B, C, D	BG, BP	200/500	CDR1 -B-221C---	220	F, G, J, K, M	BG, BP	200
CDR1 -B-1R6*---	1.6	B, C, D	BG, BP	200/500	CDR1 -B-241C---	240	F, G, J, K, M	BG, BP	200
CDR1 -B-1R7*---	1.7	B, C, D	BG, BP	200/500	CDR1 -B-271C---	270	F, G, J, K, M	BG, BP	200
CDR1 -B-1R8*---	1.8	B, C, D	BG, BP	200/500	CDR1 -B-301C---	300	F, G, J, K, M	BG, BP	200
CDR1 -B-1R9*---	1.9	B, C, D	BG, BP	200/500	CDR1 -B-331C---	330	F, G, J, K, M	BG, BP	200
CDR1 -B-2R0*---	2.0	B, C, D	BG, BP	200/500	CDR1 -B-361C---	360	F, G, J, K, M	BG, BP	200
CDR1 -B-2R1*---	2.1	B, C, D	BG, BP	200/500	CDR1 -B-391C---	390	F, G, J, K, M	BG, BP	200
CDR1 -B-2R2*---	2.2	B, C, D	BG, BP	200/500	CDR1 -B-431C---	430	F, G, J, K, M	BG, BP	200
CDR1 -B-2R4*---	2.4	B, C, D	BG, BP	200/500	CDR1 -B-471C---	470	F, G, J, K, M	BG, BP	200
CDR1 -B-2R7*---	2.7	B, C, D	BG, BP	200/500	CDR1 -B-511B---	510	F, G, J, K, M	BG, BP	100
CDR1 -B-3R0*---	3.0	B, C, D	BG, BP	200/500	CDR1 -B-561B---	560	F, G, J, K, M	BG, BP	100
CDR1 -B-3R3*---	3.3	B, C, D	BG, BP	200/500	CDR1 -B-621B---	620	F, G, J, K, M	BG, BP	100
CDR1 -B-3R6*---	3.6	B, C, D	BG, BP	200/500	CDR1 -B-681A---	680	F, G, J, K, M	BG, BP	50
CDR1 -B-3R9*---	3.9	B, C, D	BG, BP	200/500	CDR1 -B-751A---	750	F, G, J, K, M	BG, BP	50
CDR1 -B-4R3*---	4.3	B, C, D	BG, BP	200/500	CDR1 -B-821A---	820	F, G, J, K, M	BG, BP	50
CDR1 -B-4R7*---	4.7	B, C, D	BG, BP	200/500	CDR1 -B-911A---	910	F, G, J, K, M	BG, BP	50
CDR1 -B-5R1*---	5.1	B, C, D	BG, BP	200/500	CDR1 -B-102A---	1000	F, G, J, K, M	BG, BP	50
CDR1 -B-5R6*---	5.6	B, C, D	BG, BP	200/500	CDR1 -B-112A---	1100	F, G, J, K, M	BP	50
CDR1 -B-6R2*---	6.2	B, C, D	BG, BP	200/500	CDR1 -B-122A---	1200	F, G, J, K, M	BP	50
CDR1 -B-6R8*---	6.8	B, C, J, K, M	BG, BP	200/500	CDR1 -B-132A---	1300	F, G, J, K, M	BP	50
CDR1 -B-7R5*---	7.5	B, C, J, K, M	BG, BP	200/500	CDR1 -B-152A---	1500	F, G, J, K, M	BP	50
CDR1 -B-8R2*---	8.2	B, C, J, K, M	BG, BP	200/500	CDR1 -B-162A---	1600	F, G, J, K, M	BP	50
CDR1 -B-9R1*---	9.1	B, C, J, K, M	BG, BP	200/500	CDR1 -B-182A---	1800	F, G, J, K, M	BP	50
CDR1 -B-100*---	10	F, G, J, K, M	BG, BP	200/500	CDR1 -B-202A---	2000	F, G, J, K, M	BP	50
CDR1 -B-110*---	11	F, G, J, K, M	BG, BP	200/500	CDR1 -B-222A---	2200	F, G, J, K, M	BP	50
CDR1 -B-120*---	12	F, G, J, K, M	BG, BP	200/500	CDR1 -B-242A---	2400	F, G, J, K, M	BP	50
CDR1 -B-130*---	13	F, G, J, K, M	BG, BP	200/500	CDR1 -B-272A---	2700	F, G, J, K, M	BP	50
CDR1 -B-150*---	15	F, G, J, K, M	BG, BP	200/500	CDR1 -B-302A---	3000	F, G, J, K, M	BP	50
CDR1 -B-160*---	16	F, G, J, K, M	BG, BP	200/500	CDR1 -B-332A---	3300	F, G, J, K, M	BP	50
CDR1 -B-180*---	18	F, G, J, K, M	BG, BP	200/500	CDR1 -B-362A---	3600	F, G, J, K, M	BP	50
CDR1 -B-200*---	20	F, G, J, K, M	BG, BP	200/500	CDR1 -B-392A---	3900	F, G, J, K, M	BP	50
CDR1 -B-220*---	22	F, G, J, K, M	BG, BP	200/500	CDR1 -B-432A---	4300	F, G, J, K, M	BP	50
CDR1 -B-240*---	24	F, G, J, K, M	BG, BP	200/500	CDR1 -B-472A---	4700	F, G, J, K, M	BP	50
CDR1 -B-270*---	27	F, G, J, K, M	BG, BP	200/500	CDR1 -B-502A---	5000	F, G, J, K, M	BP	50
CDR1 -B-300*---	30	F, G, J, K, M	BG, BP	200/500	CDR1 -B-512A---	5100	F, G, J, K, M	BP	50
CDR1 -B-330*---	33	F, G, J, K, M	BG, BP	200/500					
CDR1 -B-360*---	36	F, G, J, K, M	BG, BP	200/500					
CDR1 -B-390*---	39	F, G, J, K, M	BG, BP	200/500					
CDR1 -B-430*---	43	F, G, J, K, M	BG, BP	200/500					
CDR1 -B-470*---	47	F, G, J, K, M	BG, BP	200/500					
CDR1 -B-510*---	51	F, G, J, K, M	BG, BP	200/500					

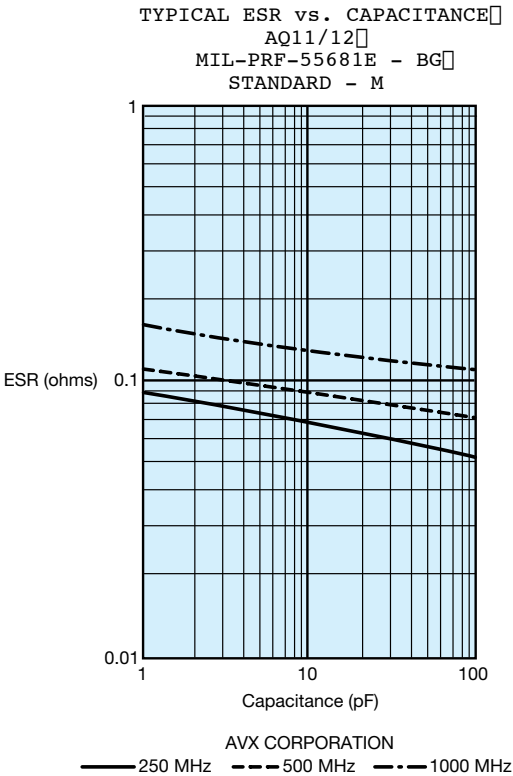
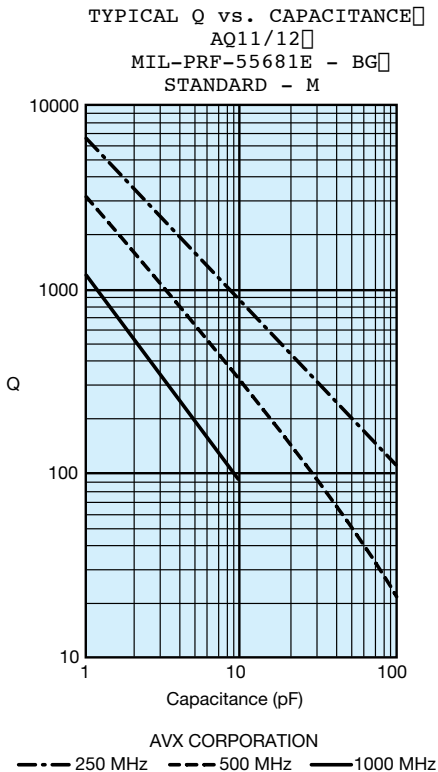
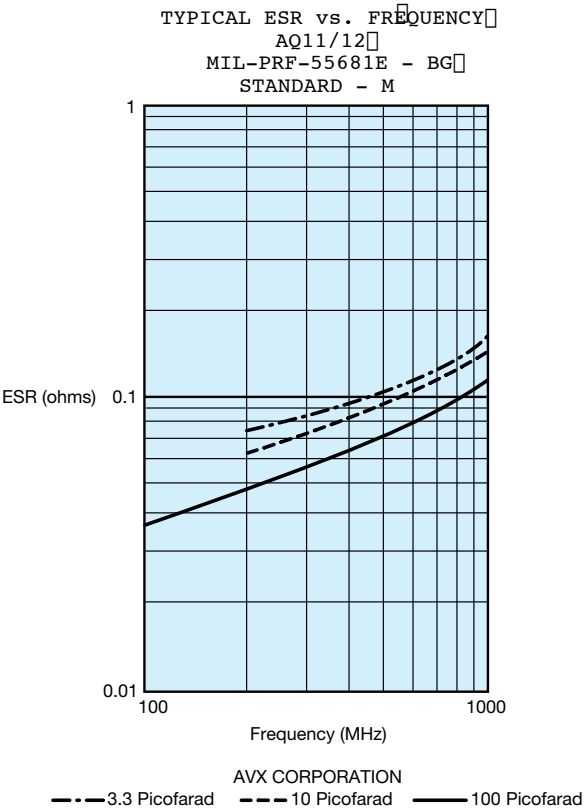
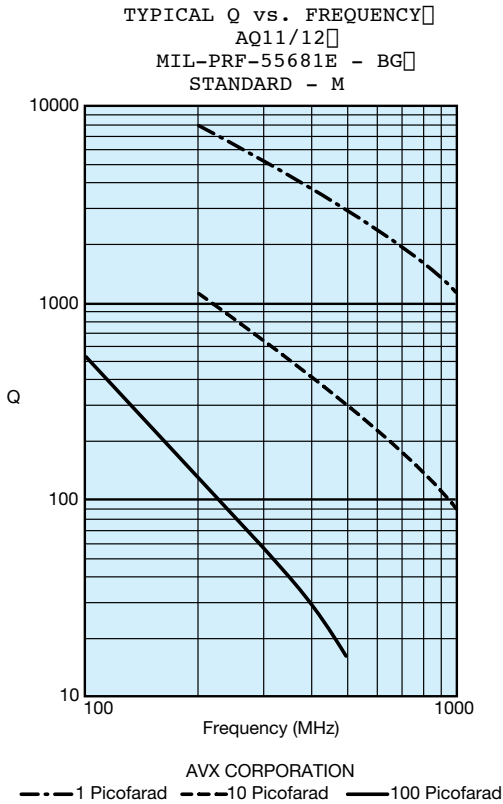
1/Complete type designation will include additional symbols to indicate style, voltage-temperature limits, capacitance tolerance (where applicable), termination finish ("M" or "N" for style CDR13, and "S", "U", "W", "Y" or "Z" for style CDR14) and failure rate level.

*C=200V; E=500V.

‡C=200V; D=300V.

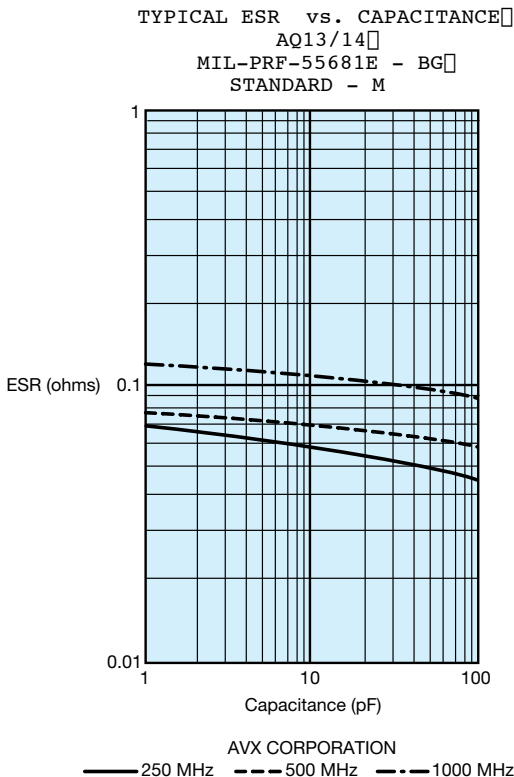
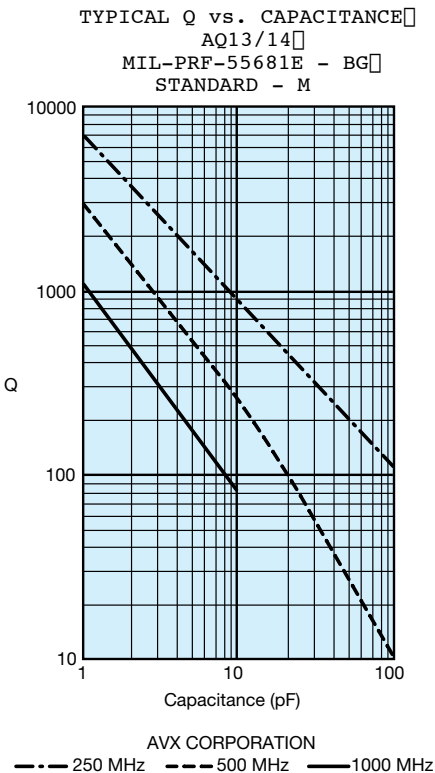
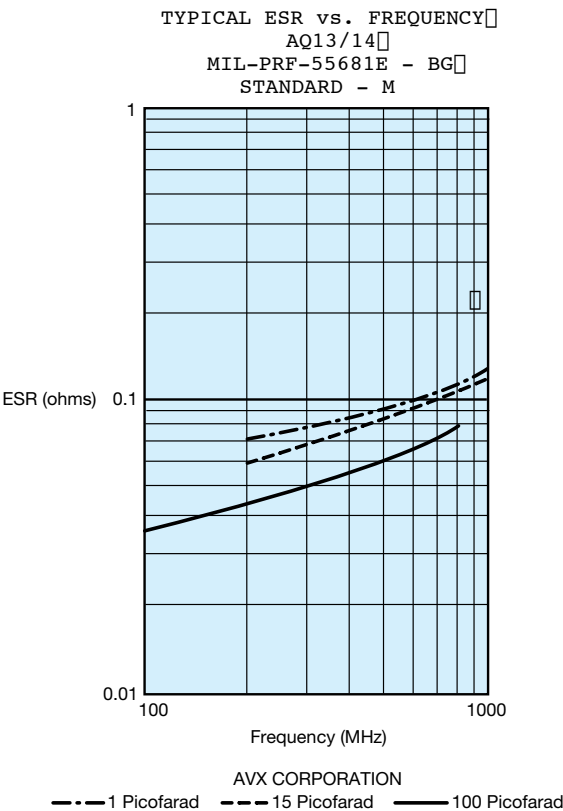
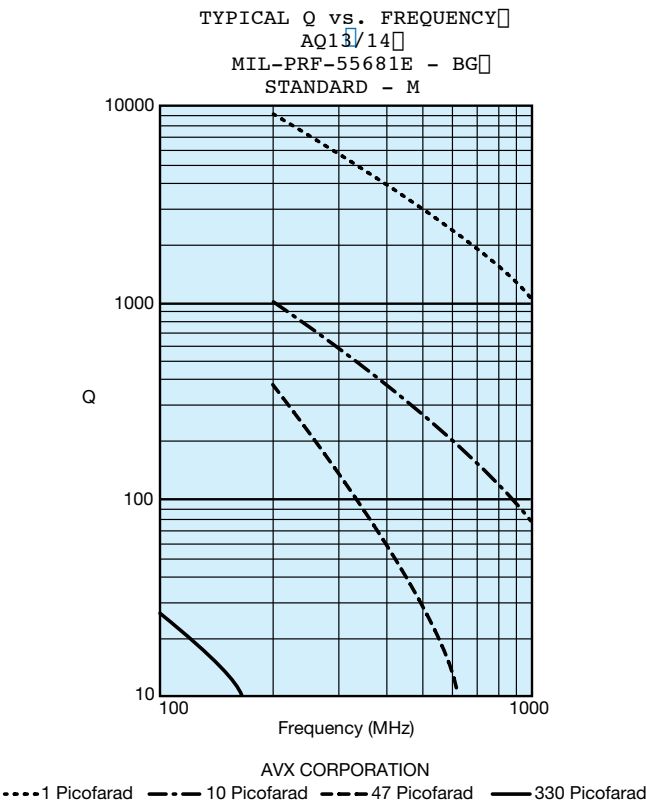
Microwave MLC's

Performance Curves



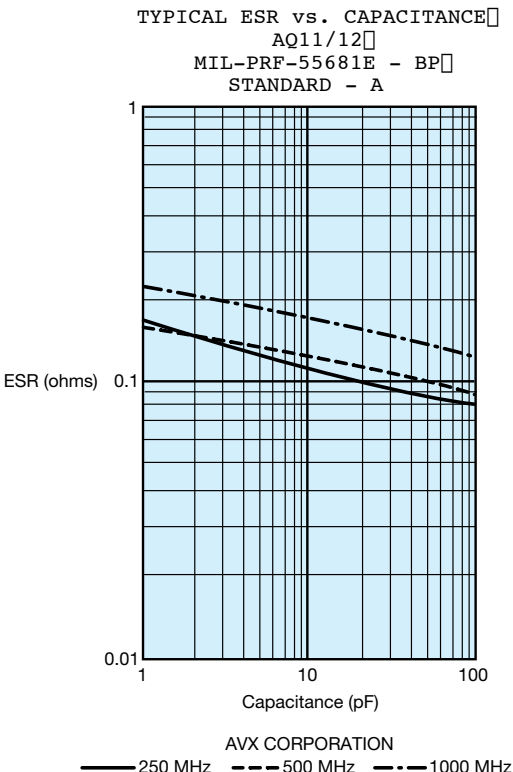
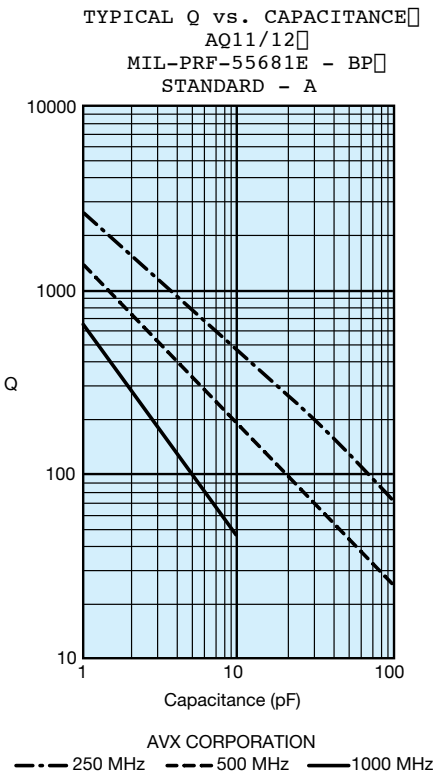
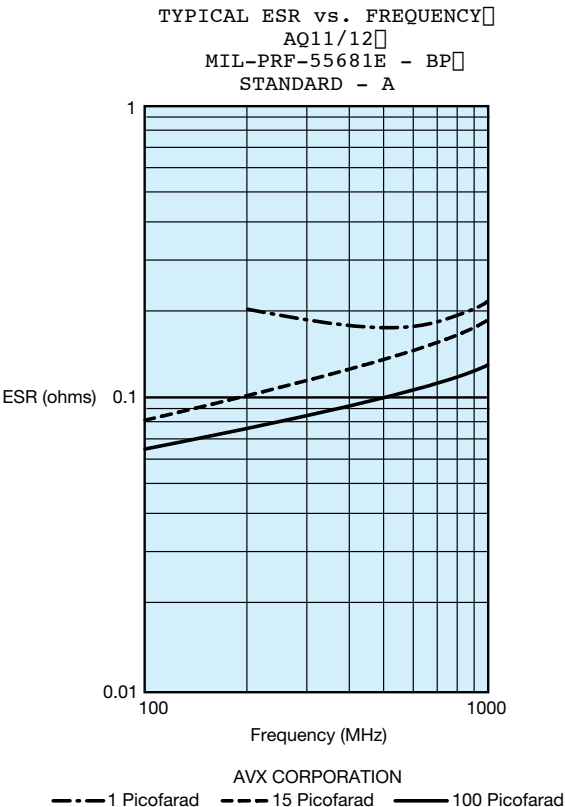
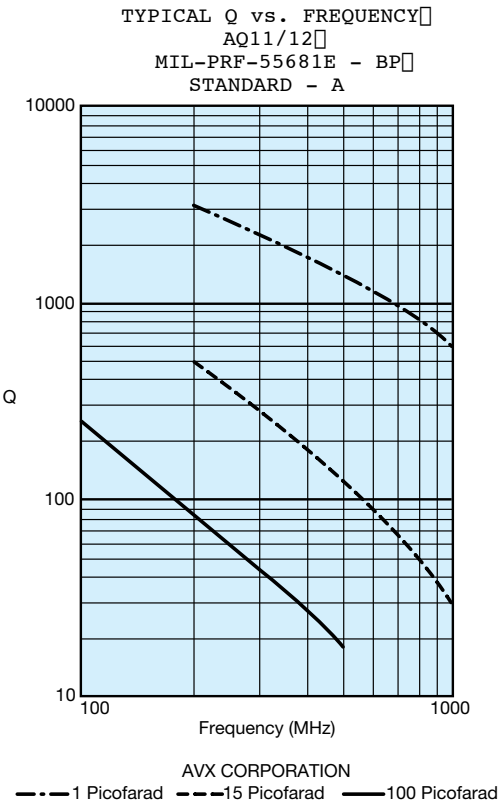
Microwave MLC's

Performance Curves



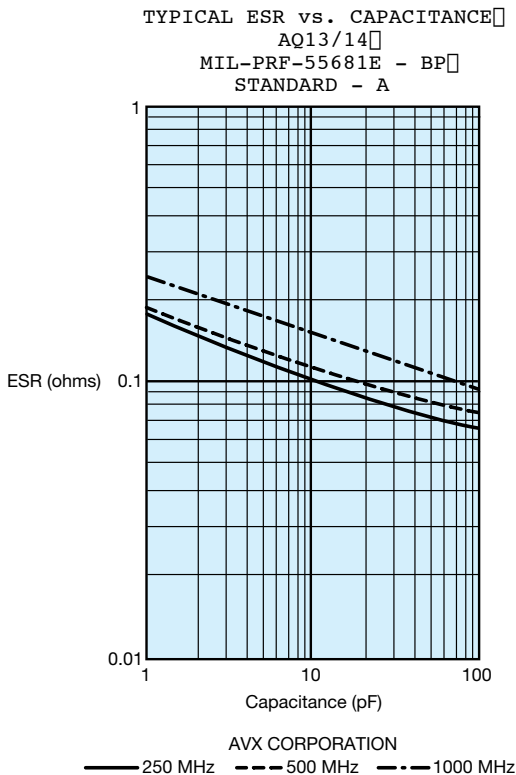
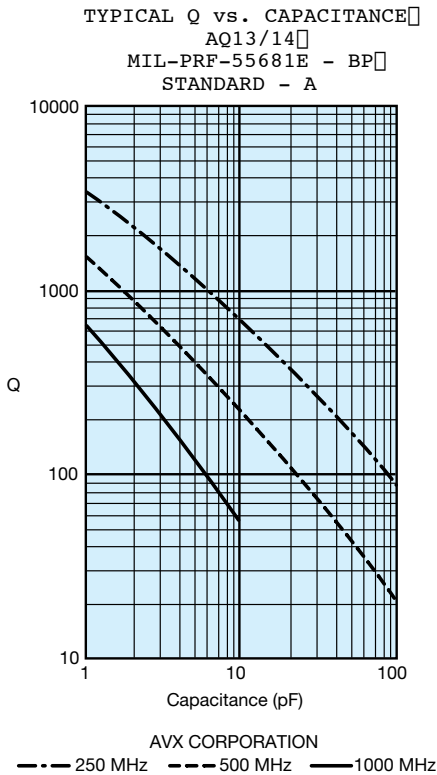
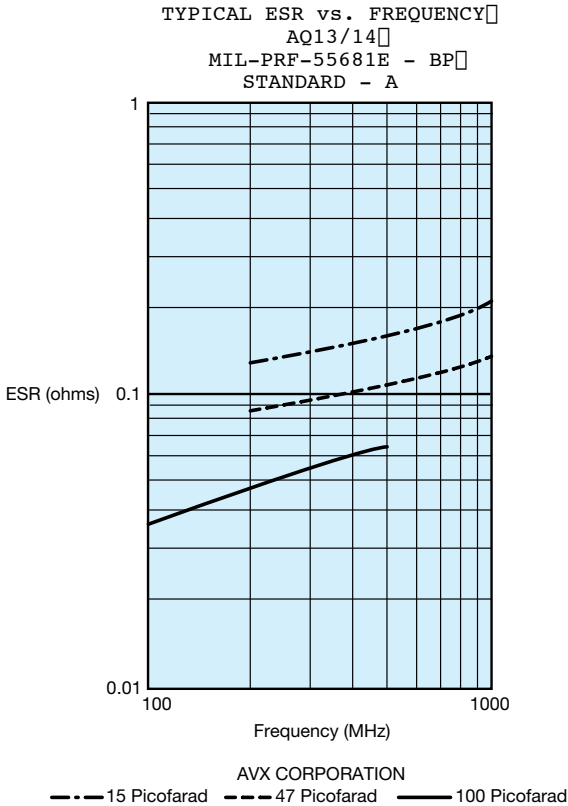
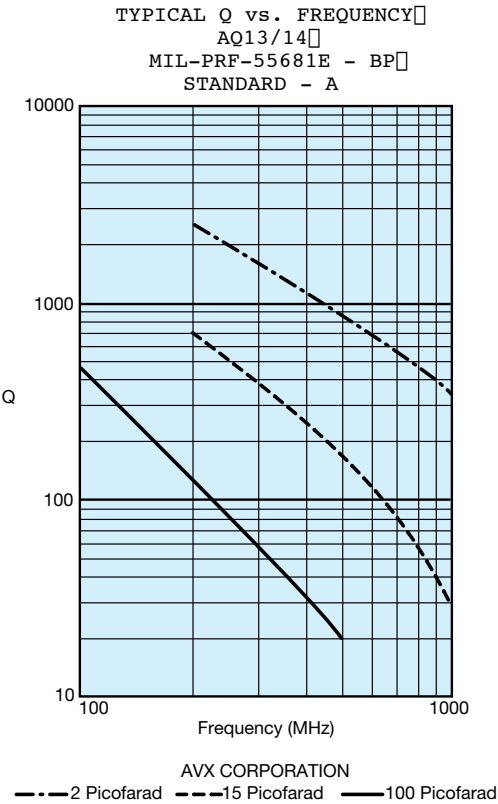
Microwave MLC's

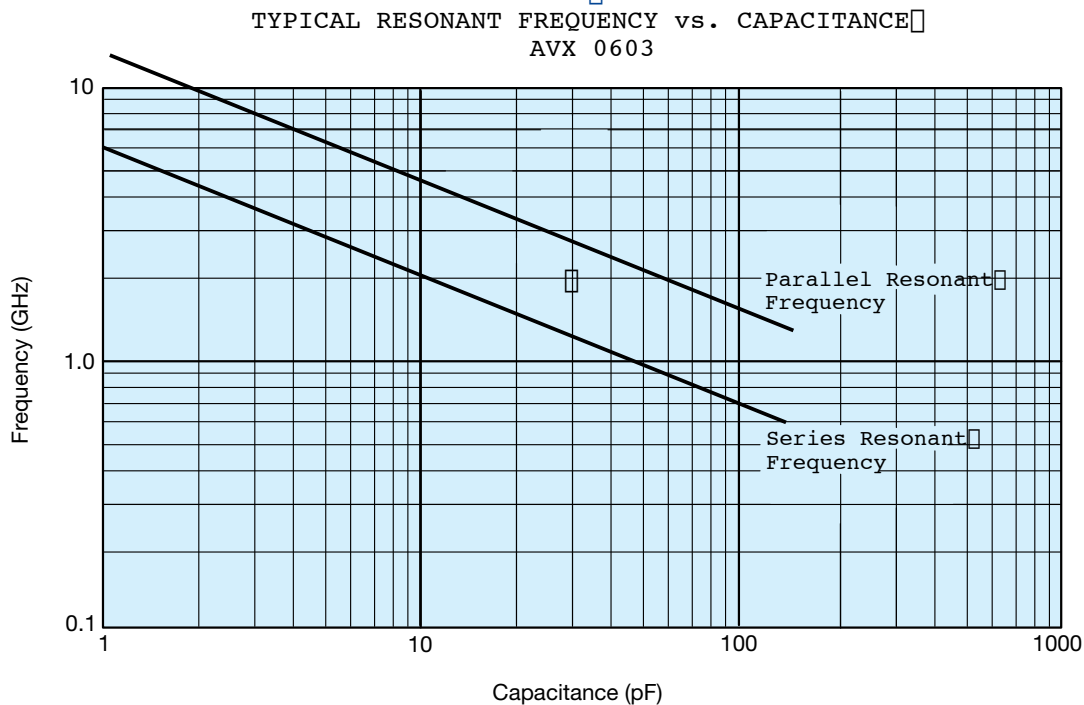
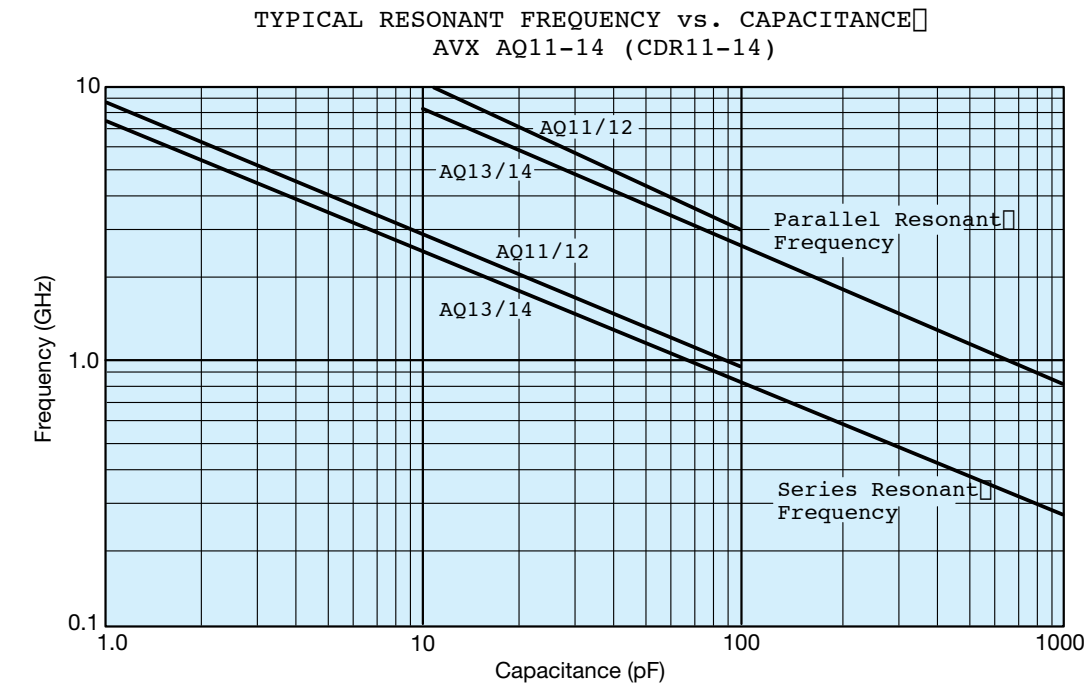
Performance Curves



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