

MIL-PRF-55681 CDR Chip Capacitors

Size	CDR01			CDR02		CDR03			CDR04			CDR05		
L inch (mm)	0.080 ± .015 (2.03 ± 0.38)			0.180 ± .015 (4.57 ± 0.38)		0.180 ± .015 (4.57 ± 0.38)			0.180 ± .015 (4.57 ± 0.38)			0.180 +.020/- .015 (4.57 +0.51/- 0.38)		
W inch (mm)	0.050 ± .015 (1.27 ± 0.38)			0.050 ± .015 (1.27 ± 0.38)		0.080 ± .015 (2.03 ± 0.38)			0.125 ± .015 (3.18 ± 0.38)			0.250 +.020/- .015 (6.35 +0.51/- 0.38)		
T min. inch (mm)	0.022 (0.56)			0.022 (0.56)		0.022 (0.56)			0.022 (0.56)			0.020 (0.51)		
T max. inch (mm)	0.055 (1.40)			0.055 (1.40)		0.080 (2.03)			0.080 (2.03)			0.080 (2.03)		
M.B. inch (mm)	0.020 ± .010 (0.51 ± 0.25)			0.020 ± .010 (0.51 ± 0.25)		0.020 ± .010 (0.51 ± 0.25)			0.020 ± .010 (0.51 ± 0.25)			0.020 ± .010 (0.51 ± 0.25)		
Dielectric	BP	BX		BX		BP	BX		BP	BX		BP	BX	
WVDC	100	100	50	100	50	100	100	50	100	100	50	100	100	50
Capacitance in pF	10	120	3900	3900	12000	330	12000	39000	1200	39000	82000	3900	68000	220000
	180	3300	4700	10000	22000	1000	33000	68000	3300	56000	180000	5600	150000	330000
Tolerance	J, K, M			K, M		J, K, M			J, K	K, M		J, K	K, M	
Termination	M, S, U, W, Z			M, S, U, W, Z		M, S, U, W, Z			M, S, U, W, Z			M, S, U, W, Z		
Life Failure Rate	M, P, R, S			M, P, R, S		M, P, R, S			M, P, R, S			M, P, R, S		
Designation	HR0805			HR1805		HR1808			HR1812			HR1825		
Test or Qual Reference	55681-659-85			55681-049-00		55681-660-85			55681-049-00			55681-049-00		
Specification Sheet	/1			/1		/1			/1			/2		



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MIL-PRF-55681 CDR Chip Capacitors

Size	CDR06		CDR11		CDR12		CDR13
L inch (mm)	0.225 ± .020 (7.52 ± 0.51)		0.055 ± .015 (1.40 ± 0.38)		0.055 ± .025 (1.40 ± 0.64)		0.110 ± .020 (2.79 ± 0.51)
W inch (mm)	0.250 ± .020 (6.35 ± 0.51)		0.055 ± .015 (1.40 ± 0.38)		0.055 ± .015 (1.40 ± 0.38)		0.110 ± .020 (2.79 ± 0.51)
T min. inch (mm)	0.020 (0.51)		0.020 (0.51)		0.020 (0.51)		0.030 (0.76)
T max. inch (mm)	0.080 (2.03)		0.057 (1.45)		0.057 (1.45)		0.102 (2.59)
M.B. inch (mm)	0.020 ± .010 (0.51 ± 0.25)		0.010 -.005/+0.010 (0.25 -0.13/+0.25)		0.010 -.005/+0.010 (0.25 -0.13/+0.25)		0.015 ± .010 (0.38 ± 0.25)
Dielectric	BP	BX	BG, BP	BP	BG	BP	BG, BP
WVDC	100	50	150, 50	50	50	50	200, 500
Capacitance in pF	6800 - 10000	390000 - 470000	.1 - 100	110 - 1000	.1 - 100	.1 - 1000	.1 - 100
Tolerance	J, K, M		B, C, D, F, G, J, K, M		B, C, D, F, G, J, K, M		B, C, D, F, G, J, K, M
Termination	M, S, U, W, Z		M, S, U, W, Z		M, S, U, W, Z		M, S, U, W, Z
Life Failure Rate	M, P, R, S		M, P		M, P		M, P
Designation	HR2225		HR0505		HR0505		HR1010
Test or Qual Reference	55681-049-00		55681-709-03		55681-709-03		55681-049-00
Specification Sheet	/3		/4		/4		/4



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MIL-PRF-55681 CDR Chip Capacitors

Size	CDR31				CDR32				CDR33				CDR34			CDR35		
L inch (mm)	0.078 ± .008 (2.00 ± 0.20)				0.125 ± .008 (3.20 ± 0.20)				0.125 ± .010 (3.20 ± 0.25)				0.176 ± .010 (4.50 ± 0.25)			0.176 ± .012 (4.50 ± 0.30)		
W inch (mm)	0.049 ± .008 (1.25 ± 0.20)				0.062 ± .008 (1.60 ± 0.20)				0.098 ± .010 (2.50 ± 0.25)				0.125 ± .010 (3.20 ± 0.25)			0.250 ± .012 (6.40 ± 0.30)		
T max. inch (mm)	0.051 ± .008 (1.30 ± 0.20)				0.051 ± .008 (1.30 ± 0.20)				0.059 ± .010 (1.50 ± 0.25)				0.059 ± .010 (1.50 ± 0.25)			0.059 ± .012 (1.50 ± 0.30)		
M.B. inch (mm)	0.020 ± .008 (0.51 ± 0.20)				0.020 ± .008 (0.51 ± 0.20)				0.020 ± .010 (0.51 ± 0.25)				0.020 ± .010 (0.51 ± 0.25)			0.020 ± .012 (0.51 ± 0.30)		
Dielectric	BP		BX		BP		BX		BP		BX		BP	BX		BP	BX	
WVDC	100	50	100	50	100	50	100	50	100	50	100	50	100	100	50	100	50	50
Capacitance in pF	1	510	470	5600	1	1100	4700	18000	1000	2400	15000	39000	2200	27000	100000	4700	11000	180000
	470	680	4700	18000	1000	2200	15000	39000	2200	3300	27000	100000	4700	56000	180000	10000	22000	470000
Tolerance	B, C, D, F, G, J, K, M				B, C, D, F, G, J, K, M				F, J, K, M				F, J, K	K, M		F, J, K	K, M	
Termination	M, S, U, W, Z				M, S, U, W, Z				M, S, U, W, Z				M, S, U, W, Z			M, S, U, W, Z		
Life Failure Rate	M, P, R, S				M, P, R, S				M, P, R, S				M, P, R, S			M, P, R, S		
Designation	HR0805				HR1206				HR1209				HR1712			HR1725		
Test or Qual Reference	55681-049-00				55681-049-00				55681-049-00				55681-049-00			55681-049-00		
Specification Sheet	/7				/8				/9				/10			/11		

Consult factory for current qualification status.

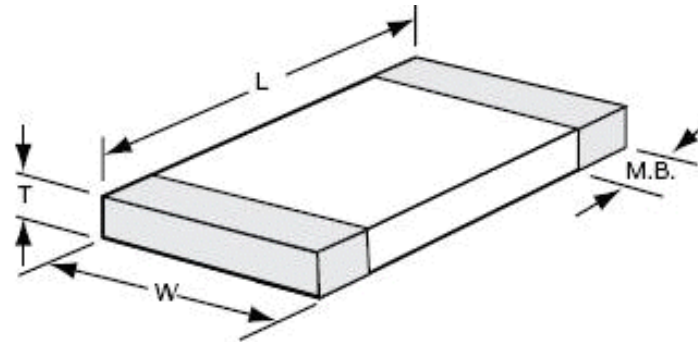


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Dimensions



Tolerance

B - $\pm .1\text{pF}$
C - $\pm .25\text{pF}$
D - $\pm .5\text{pF}$
F - $\pm 1\%$
G - $\pm 2\%$
J - $\pm 5\%$
K - $\pm 10\%$
M - $\pm 20\%$

Life Failure Rate

M - 1.0
P - 0.1
R - 0.01
S - 0.001

Termination

M - Palladium/silver alloy
S - Guarded, solder coated
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)
Z - Base metallization-barrier-solder plated (tin/lead alloy with a minimum of 4% lead)



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