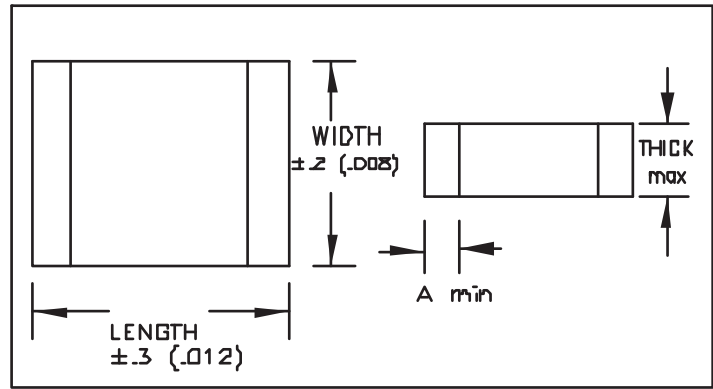


GENERAL INFORMATION

- EXTREEMLY TIGHT CAP TOL. FOR HIGH FREQUENCY SIGNAL APPLICATIONS.
- VERY HIGH INSULATION RESISTANCE.
- VERY TIGHT DIMENSIONAL TOLERANCES FOR MATCHING INDUCTANCE, CAPACITOR TO CAPACITOR.
- NO AGING CHARACTERISTICS.
- EXTREEMLY LOW DIELECTRIC ABSORPTION (0.01%)
- FOR RF SIGNAL & POWER APPLICATIONS



PART NUMBERING

Part Number Example: CMCT-050/2R2QN0603TF									
CMCT	-	050	/	2R2	Q	N	0603	T	F
Type		Rated DC Voltage		Capacitance Code (pF)*	Tolerance Code	Dielectric Material**	Case Size	Package Code***	RoHs Compliant
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).									
** Dielectric Material: N = NPO.									
*** Package Code: T = 7" Tape & Reel, T13 = 13" Tape & Reel, W = Waffle.									

GENERAL SPECIFICATIONS

Operating Temperature Range	-55~+125G
Voltage Rating	10VDC TO 100VDC
Temperature Coefficient	NPO 0±30ppm/°C OR COH 0±60ppm/°C
Capacitance Range	0.10pF TO 150pF
Capacitance Tolerance	P=±0.02pF IF CAP ≤ 2.0pF, Q=±0.03pF IF CAP ≤ 3pF, A=±0.05pF IF CAP IS ≤ 5.6pF, 8=±0.1pF IF CAP 5.6pF-10pF & C=±0.25pF IF CAP IS ≥ 10pF
Dielectric Strength	2.5 X RATED VOLTAGE FOR 1-5 seconds
Insulation Resistance	10 ¹⁰ ohm FOR 0603. 0805 & 1210 (10 ¹⁰ ohm FOR 0201 dc 0402 }

Size	Length	Width	A	Thick
0201	0.60(0.023)	0.325(0.0128)	.100(.004)	0.225(.009)
0402	1.000(0.039)	0.550(0.022)	.200(.008)	0.400(.016)
0603	1.600(0.063)	0.81(0.032)	.350(.014)	0.63(.025)
0805	2.01 (0.079)	1.27 (0.050)	.30 (.012)	0.93(.036)
1210	3.02(0.119)	2.50 (0.100)	0.43 (.017)	0.93(.036)

T/C	T/C CODE	T/C CODE
NPO	N	-55~+125C ±30ppm °C
COH	C	-55~+125C ±60ppm °C

CAPACITANCE RANGE FOR NPD

SIZE	0201			0402			0603		0805			1210	
CAP. VDC	25	16	10	25	16	10	50	25	100	50	25	100	50
0.1													
0.2													
0.3													
0.4													
0.5													
0.6													
0.7													
0.8													
0.9													
1.0													
1.1													
1.2													
1.3													
1.4													
1.5													
1.6													
1.7													
1.8													
1.9													
2.0													
2.1													
2.2													
2.3													
2.4													
2.5													
2.6													
2.7													
2.8													
2.9													
3.0													
3.1													
3.2													
3.3													
3.4													
3.5													
3.6													
3.7													
3.8													
3.9													
4.0													
4.1													
4.2													
4.3													
4.4													
4.5													
4.6													
4.7													
5.1													
5.6													
6.2													
6.8													
7.5													
8.2													
9.1													
10.0													
11.0													
12.0													
13.0													
14.0													
15.0													
16.0													
17.0													
18.0													
22.0													
24.0													
27.0													
30.0													
33.0													
38.0													
47.0													
56.0													
66.0													

CAPACITANCE RANGE FOR COH

SIZE	0805		1210		
CAP. VDC	100	50	25	100	50
0.1					
0.2					
0.3					
0.4					
0.5					
0.6					
0.7					
0.8					
0.9					
1.0					
1.1					
1.2					
1.3					
1.4					
1.5					
1.6					
1.7					
1.8					
1.9					
2.0					
2.1					
2.2					
2.3					
2.4					
2.5					
2.6					
2.7					
2.8					
2.9					
3.0					
3.1					
3.2					
3.3					
3.4					
3.5					
3.6					
3.7					
3.8					
3.9					
4.0					
4.1					
4.2					
4.3					
4.4					
4.5					
4.6					
4.7					
5.1					
5.6					
6.2					
6.8					
7.5					
8.2					
9.1					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
22.0					
24.0					
27.0					
30.0					
33.0					
38.0					
47.0					
56.0					
66.0					