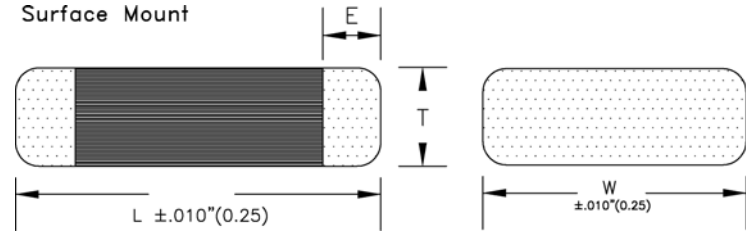


FEATURES

- Designed for RF communication applications.
- Ultra Low ESR.
- T/C IS NPO (COG).
- CMCS capacitors are available in four sizes:
25 Volts = 0402 size
50 Volts = 0603 size
100 Volts = 0603, 0805, & 1210 sizes
200 Volts = 0603, 0805, & 1210 sizes.
- Temperature Coefficient
0ppm \pm 30 ppm/ $^{\circ}$ C (-55 $^{\circ}$ C ~ +125 $^{\circ}$ C) NPO.
- Insulation Resistance:
1000000M Ω minimum @ 25 $^{\circ}$ C, rated voltage.
100000M Ω minimum @ 125 $^{\circ}$ C, rated voltage.



PART NUMBERING

Part Number Example: CMCS-100/101KN0805TF									
CMCS	-	100	/	101	K	N	0805	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.									

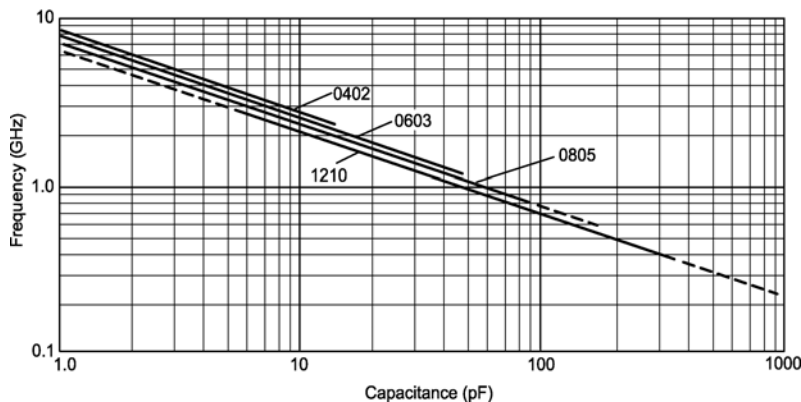
DIMENSIONS (INCHES (mm))

EIA	0402	0603	0805	1210
Length Max.	0.039(1.0)	0.06(1.50)	0.080(2.03)	0.125(3.18)
Width Max.	0.024(0.60)	0.03(0.75)	0.050(1.25)	0.095(2.41)
Max. T	0.02(0.50)	0.035(0.90)	0.050(1.25)	0.065(1.65)
Term. Band	0.01(0.25) \pm 0.005(0.13)	0.010(0.25) \pm 0.005(0.13)	0.020(0.508) \pm 0.010(0.25)	0.020(0.508) \pm 0.010(0.25)

RATINGS

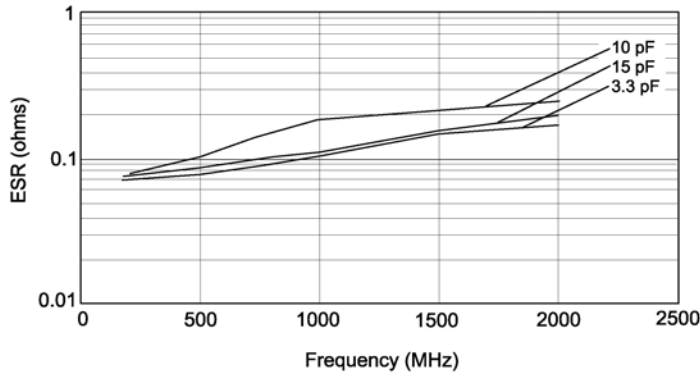
Size	WVDC			
	25	50	100	200
0402	0.2pF ~ 15pF			
0603		51pF ~ 100pF	20pF ~ 47pF	1pF ~ 18pF
0805			100pF ~ 150pF	1.5pF ~ 120pF
1210			470pF ~ 1000pF	2.2pF ~ 430pF

TYPICAL SERIES RESONANT FREQUENCY

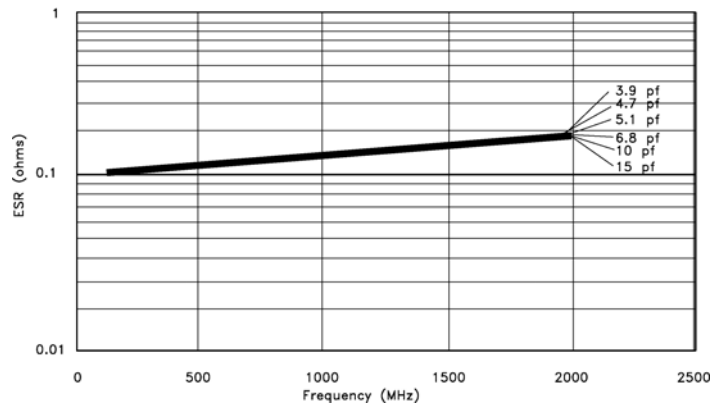


Code	Cap. Tolerance
B	± 0.1 pF
C	± 0.25 pF
D	± 0.5 pF
F	$\pm 1\%$
G	$\pm 2\%$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$

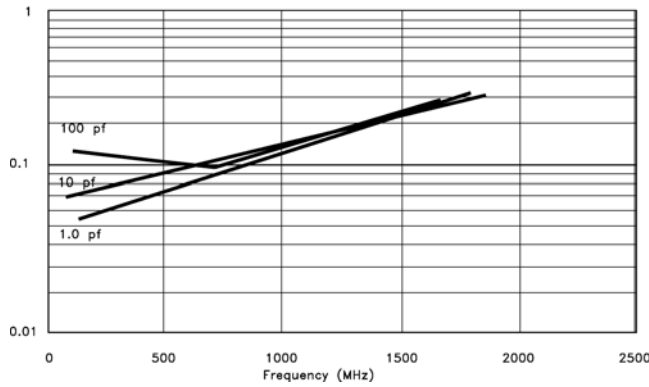
TYPICAL ESR vs. FREQUENCY
0402



TYPICAL ESR vs FREQUENCY (0603)



TYPICAL ESR vs FREQUENCY (0805)



TYPICAL ESR vs FREQUENCY (1210)

