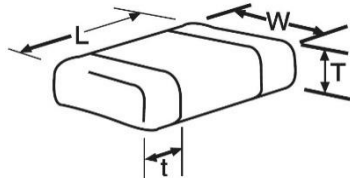


## Electrical Characteristics Data

Data in this document is subject to change without notice.

## Dimensions



millimetres (inches)

L	2.01 $\pm$ 0.20 (0.079 $\pm$ 0.008)
W	1.25 $\pm$ 0.20 (0.049 $\pm$ 0.008)
T max.	0.94 (0.037)
t	0.50 $\pm$ 0.25 (0.020 $\pm$ 0.010)

## Basic Specifications

Item	Unit	Spec.	Conditions
Capacitance	nF	0.9 to 1.1	@ 1 kHz, 1 Vrms
DF	%	2.5 max.	@ 1 kHz, 1 Vrms
IR	G $\Omega$	100 min.	@ 50 Vdc
DWV	Vdc	125	@ I $\leq$ 50mA, t $\leq$ 5 s

Operating Temperature

-55°C to +150°C

Dielectric

X8R

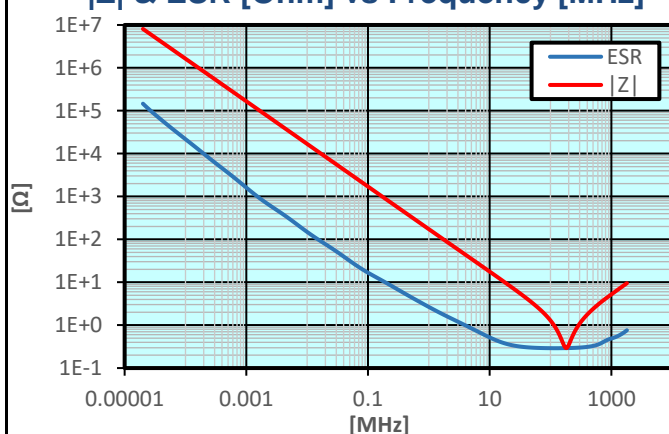
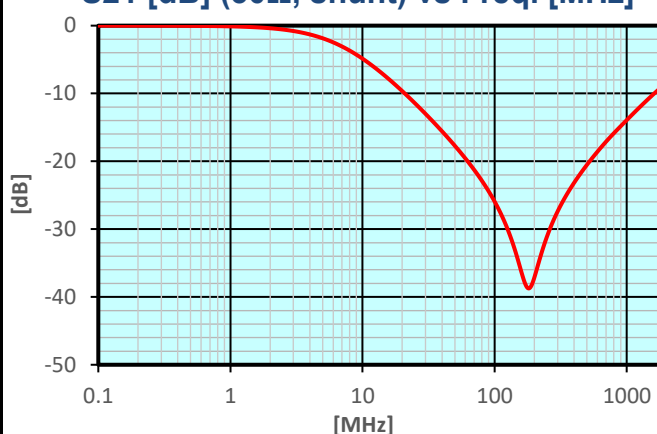
AEC-Q200

Qualified

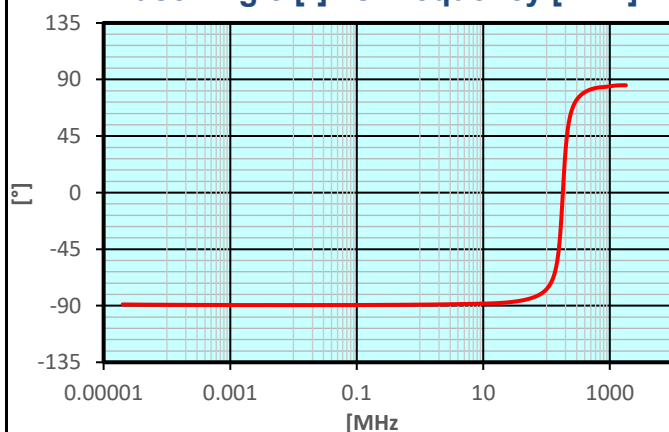
RoHS Compliant

Yes

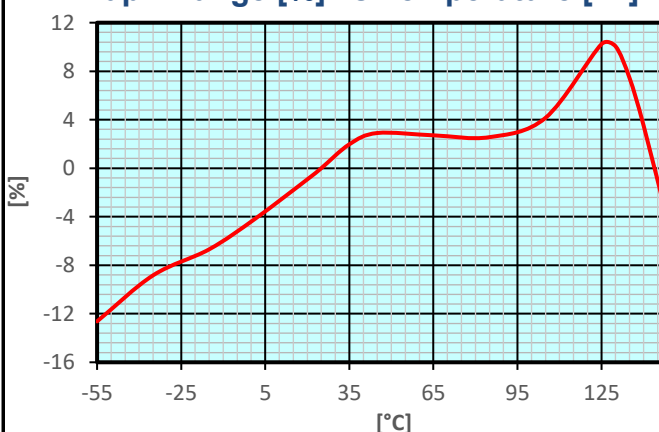
## |Z| &amp; ESR [Ohm] vs Frequency [MHz]

S21 [dB] (50 $\Omega$ , shunt) vs Freq. [MHz]

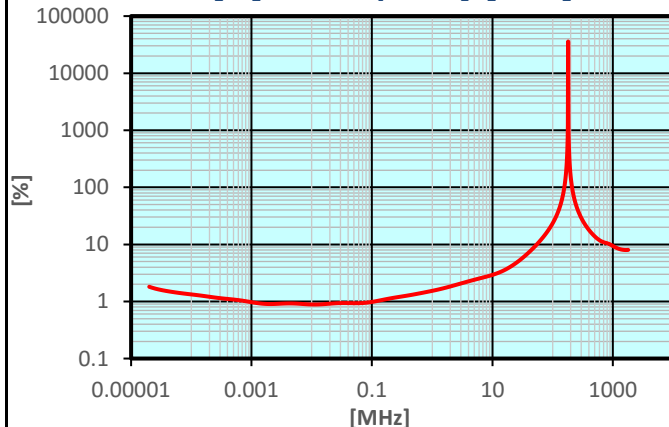
## Phase Angle [°] vs Frequency [MHz]



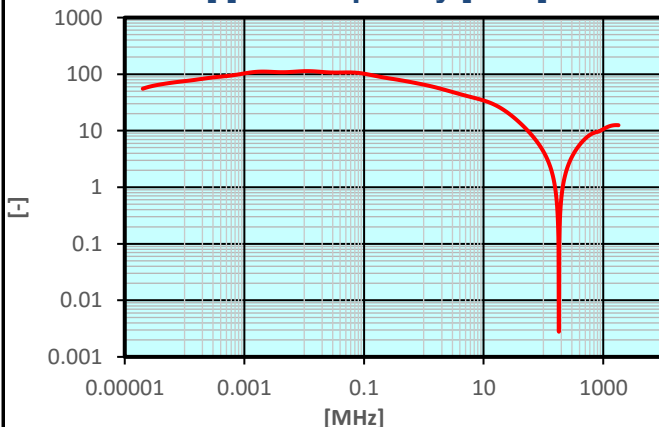
## Cap.Change [%] vs Temperature [°C]



## DF [%] vs Frequency [MHz]

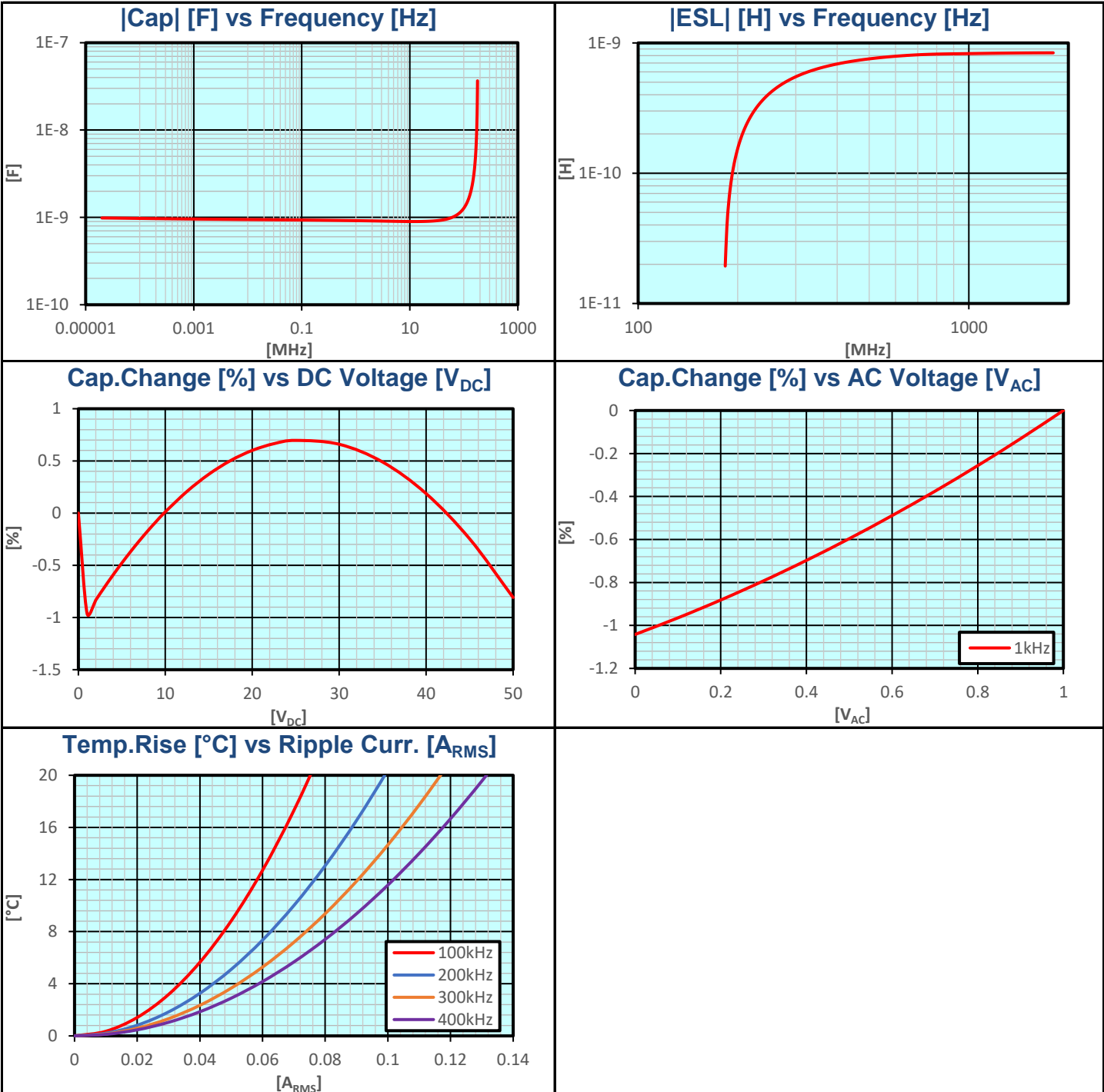


## Q [-] vs Frequency [MHz]





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HOW TO ORDER:

0805	5	L	103	K	A	T	2	A
AVX	Voltage	Dielectric	Capacitance	Capacitance	Failure	Termination	Packaging/	Special
Style			Code	Tolerance	Rate		Marking	Code
0603	16V = Y	F = X8R	(2 significant digits	J = ±5%*	A = Standard	T = Plated Ni/Sn	2 = 7" Reel	A = Standard
0805	25V = 3	L = X8L	+ no of zeros)	K = ±10%	4 = Automotive	Z = Flexitem®	4 = 13" Reel	
1206	50V = 5			M = ±20%		U = Conductive		
	100V = 1		Examples:			Epoxy for		
			100 = 10 pF			Hybrid apps		
			101 = 100 pF					
			102 = 1000 pF					
			223 = 22000 pF					
			224 = 220000 pF					
			105 = 1µF					
			106 = 10µF					
			107 = 100µF					