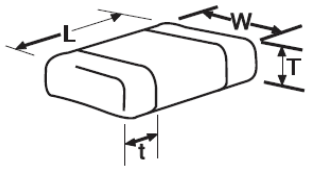
0603ZD106KAT2A (0603 10V X5R 10uF ±10%)

Electrical Characteristics Data

Data in this document is subject to change without notice.

Dimensions



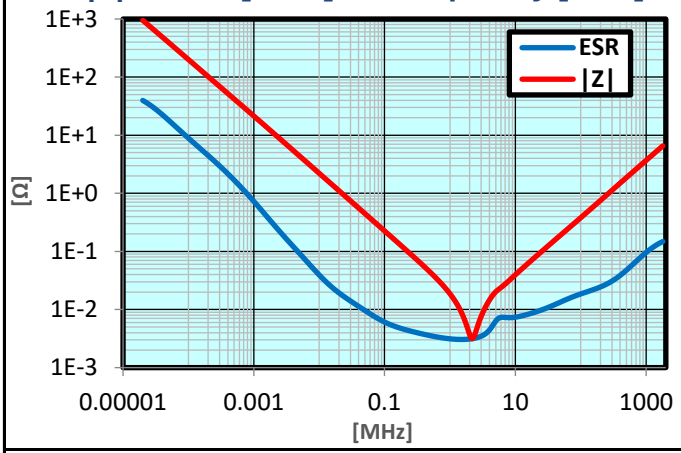
millimetres (inches)	
L	1.60 ± 0.15 (0.063 ± 0.006)
W	0.81 ± 0.15 (0.032 ± 0.006)
T max.	0.94 (0.037)
t	0.35 ± 0.15 (0.014 ± 0.006)

Basic Specifications

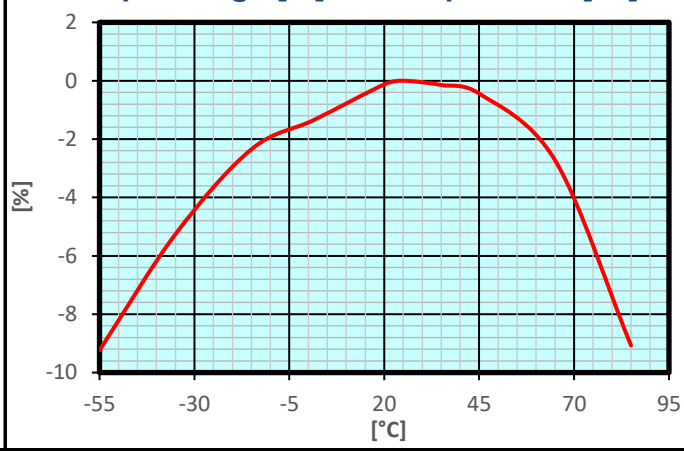
Item	Unit	Spec.	Conditions
Capacitance	uF	9 to 11	@ 1 kHz, 1 Vrms
DF	%	12.5 max.	@ 1 kHz, 1 Vrms
IR	MΩ	50 min.	@ 10 Vdc
DWV	Vdc	25	@ I ≤ 50mA, t ≤ 5 s

Operating Temperature	-55 °C to +85 °C
Dielectric	X5R
AEC-Q200	Not qualified
RoHS Compliant	Yes

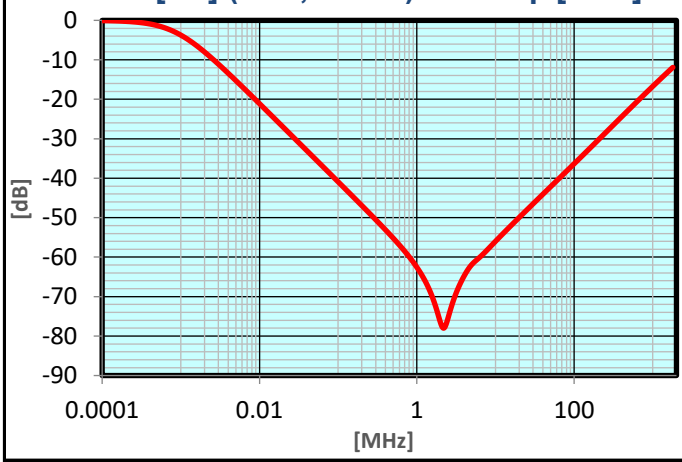
|Z| & ESR [Ohm] vs Frequency [MHz]



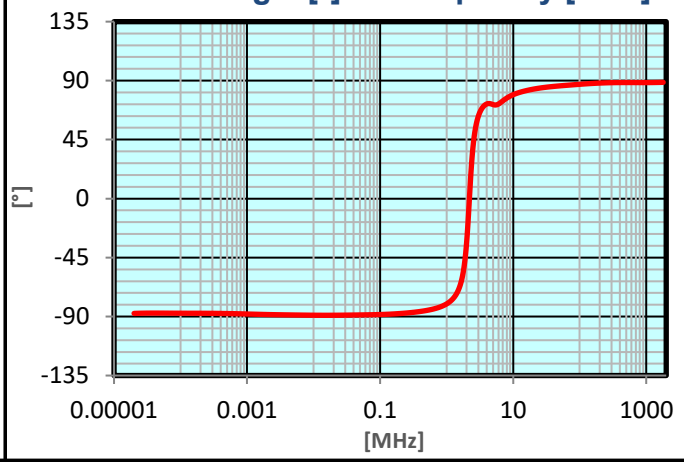
Cap.Change [%] vs Temperature [°C]



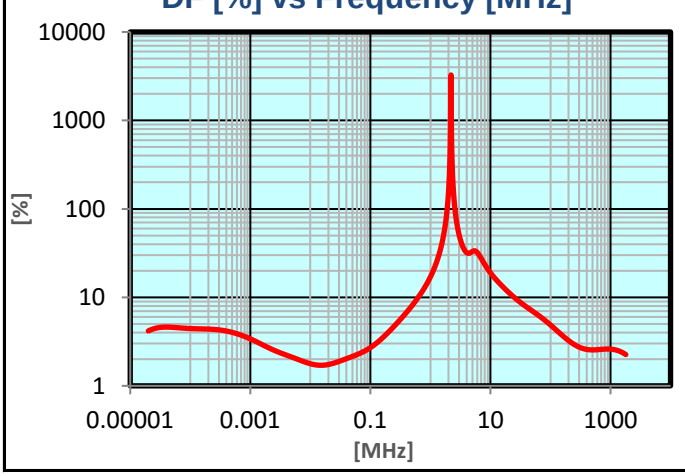
S21 [dB] (50Ω, shunt) vs Freq. [MHz]



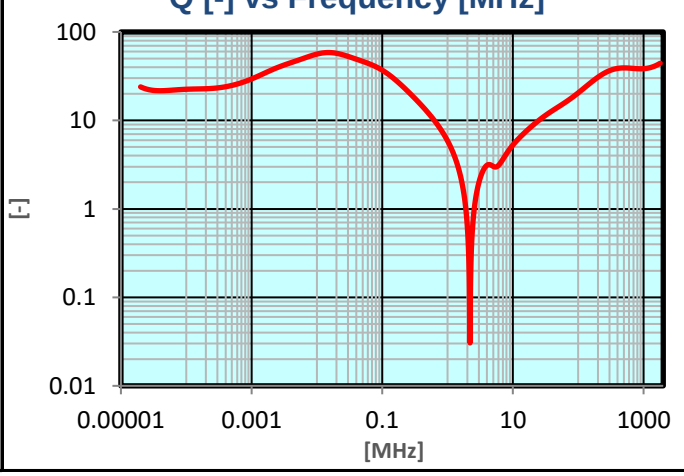
Phase Angle [°] vs Frequency [MHz]



DF [%] vs Frequency [MHz]



Q [-] vs Frequency [MHz]



0603ZD106KAT2A (0603 10V X5R 10uF ±10%)

Electrical Characteristics Data

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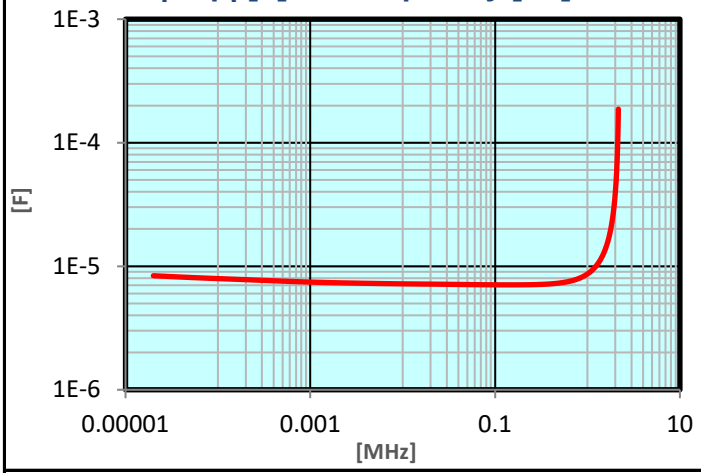
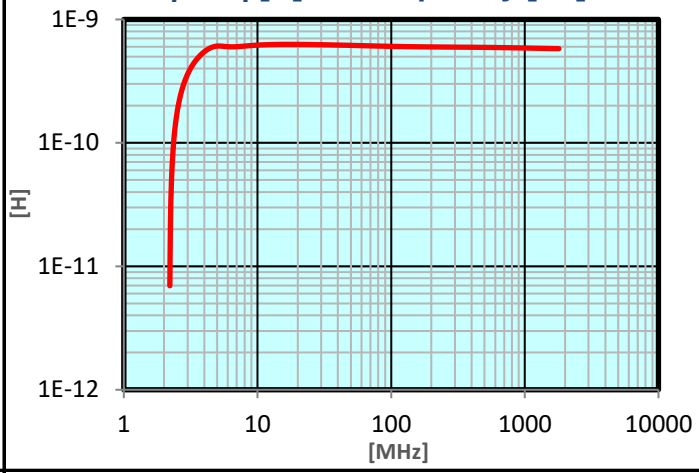
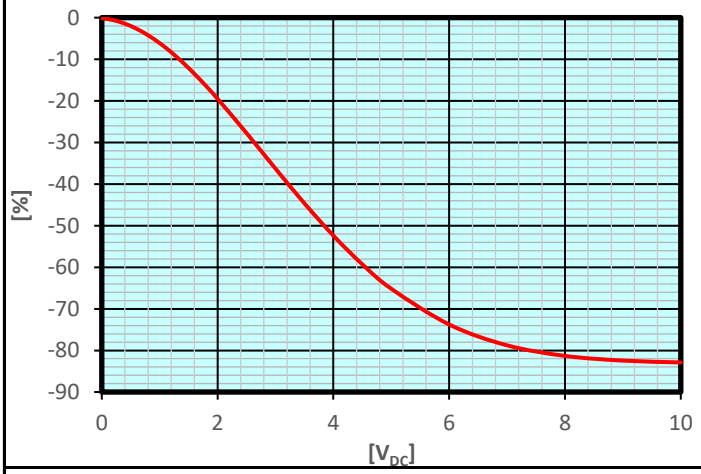
|Cap| [F] vs Frequency [Hz]



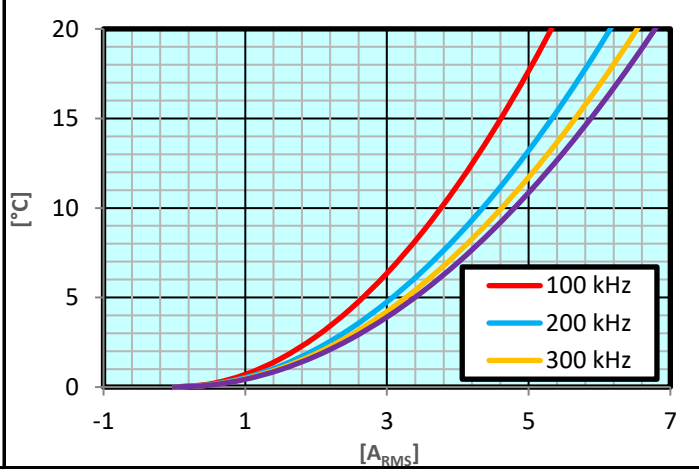
|ESL| [H] vs Frequency [Hz]



Cap.Change [%] vs DC Voltage [V_{DC}]



Temp.Rise [°C] vs Ripple Curr. [A_{RMS}]



HOW TO ORDER:

0805	5	D	103	K	A	T	2	A
AVX Style	**Voltage**	**Dielectric**	**Capacitance Code**	**Capacitance Tolerance**	**Failure Rate**	**Termination**	**Packaging/ Marking**	**Special Code**
0101*	4 = 4 V	D = X5R	(2 significant digits	K = ±10 %	A = Standard	T = Plated Ni/Sn	2 = 7" Reel	A = Standard
0201	6 = 6.3 V		+ no of zeros)	M = ±20 %			4 = 13" Reel	
0402	Z = 10 V						U = 4mm TR	
0603	Y = 16 V		Examples:				(01005)	
0805	3 = 25 V		100 = 10 pF					
1206	D = 35 V		101 = 100 pF					
1210	5 = 50 V		102 = 1000 pF					
1812	1 = 100 V		223 = 22000 pF					
			224 = 220000 pF					
			105 = 1µF					
			106 = 10µF					
			107 = 100µF					

*EIA 01005

NOTE:
Contact factory for availability of Tolerance Options for Specific Part Numbers.
Contact factory for non-specified capacitance values.
Please check catalog for part number availability