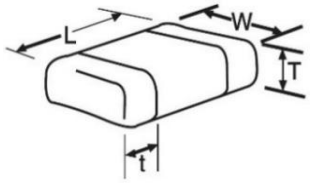
0402YC182M4Z2A Datasheet

To download data and simulation models visit: SpiCAT ONLINE TOOL

KYOCERA AVX

(0402 16V X7R 1.8nF ±20% AEC-Q200 FLEXITERM®)

Dimensions



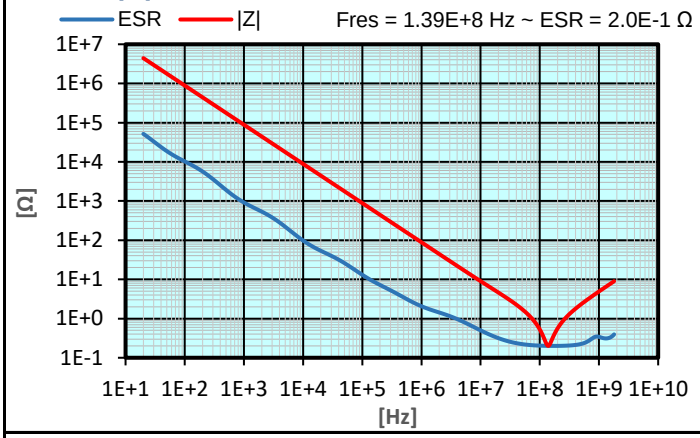
	millimetres	*inches*
L	1 ± 0.1	0.039 ± 0.004
W	0.5 ± 0.1	0.02 ± 0.004
T max.	0.56	0.022
t	0.25 ± 0.15	0.01 ± 0.006

Basic Specifications

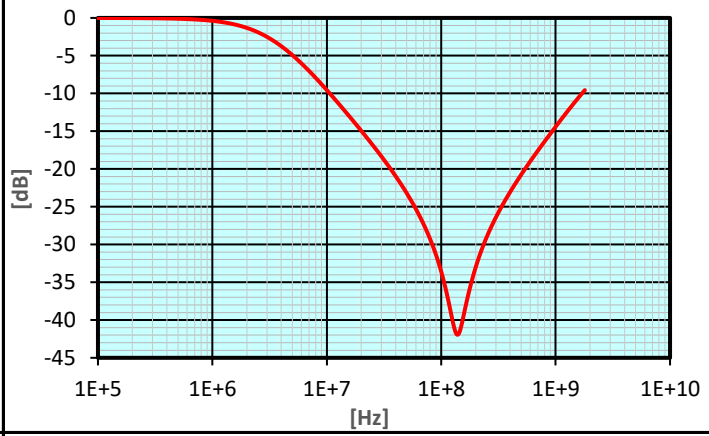
Item	*Unit*	*Spec.*	*Conditions*
Capacitance	nF	1.44 to 2.16	@ 1 kHz, 1 Vrms
DF	%	3.5 max.	@ 1 kHz, 1 Vrms
IR	GΩ	100 min.	@ 16 Vdc, t = 120 s
DWV	Vdc	40	@ I ≤ 50mA, t ≤ 5 s
Operating Temperature		-55°C to +125°C	
Dielectric		X7R	
AEC-Q200		Qualified	
RoHS Compliant		Yes	
Termination		FLEXITERM®	

Electrical Characteristics

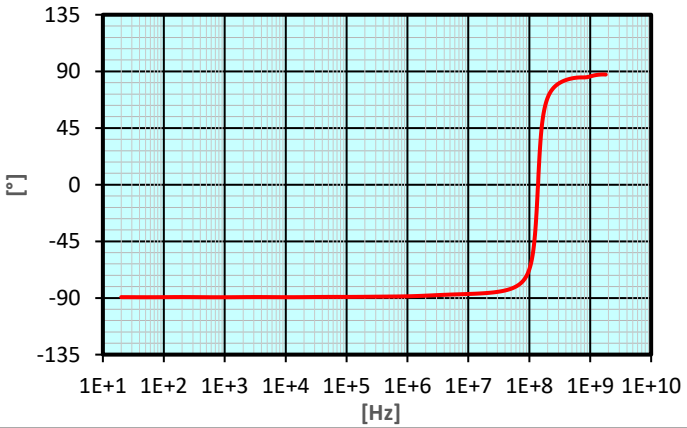
|Z| & ESR [Ohm] vs Frequency [Hz]



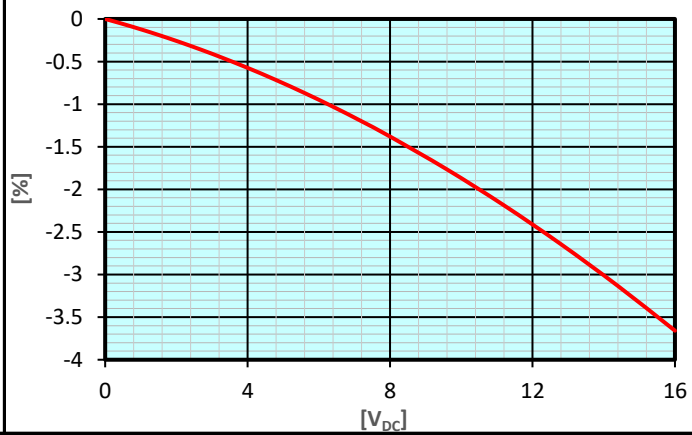
S21 [dB] (50Ω, shunt) vs Freq. [Hz]



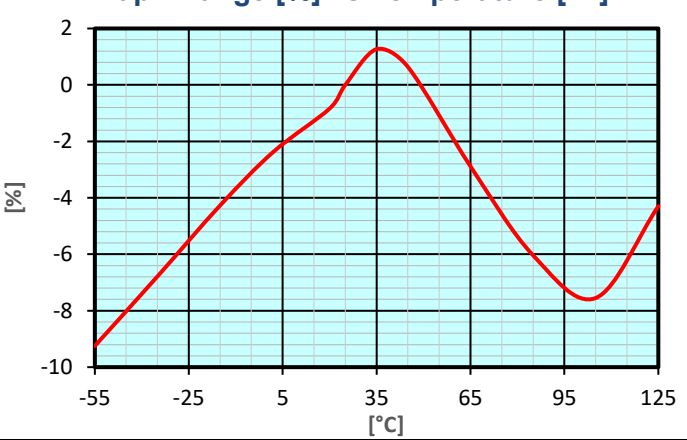
Phase Angle [°] vs Frequency [Hz]



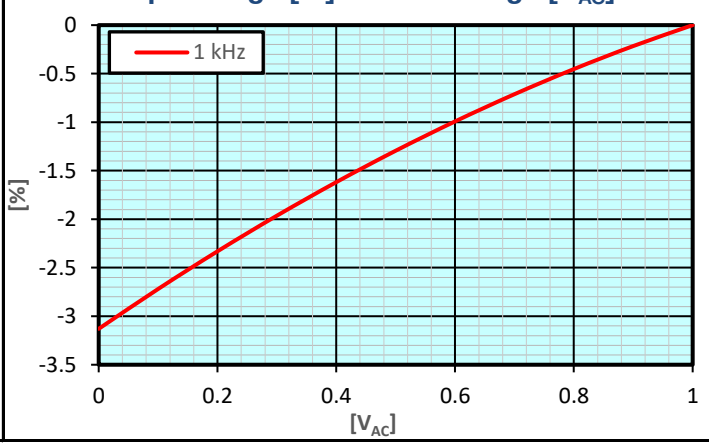
Cap.Change [%] vs DC Voltage [V_{DC}]



Cap.Change [%] vs Temperature [°C]



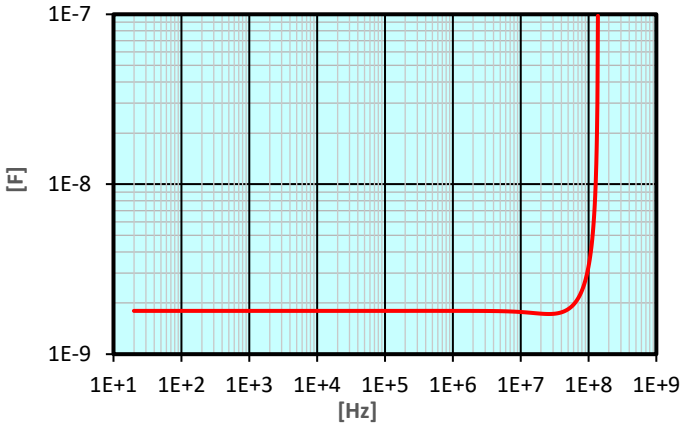
Cap.Change [%] vs AC Voltage [V_{AC}]



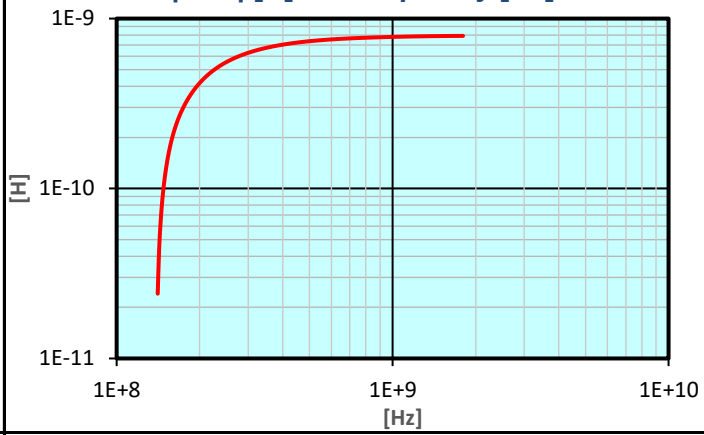
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Electrical Characteristics

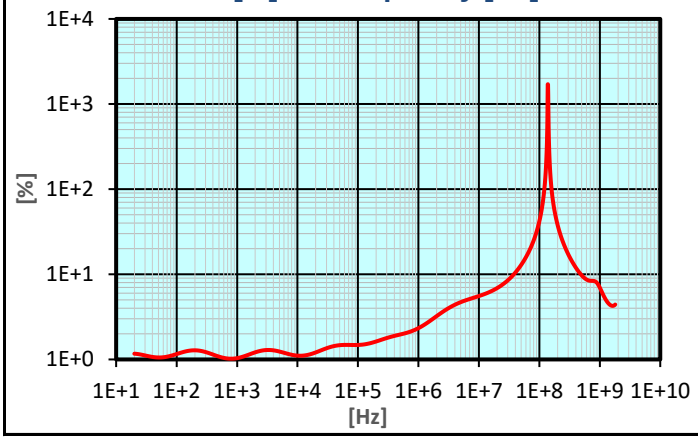
|Cap| [F] vs Frequency [Hz]



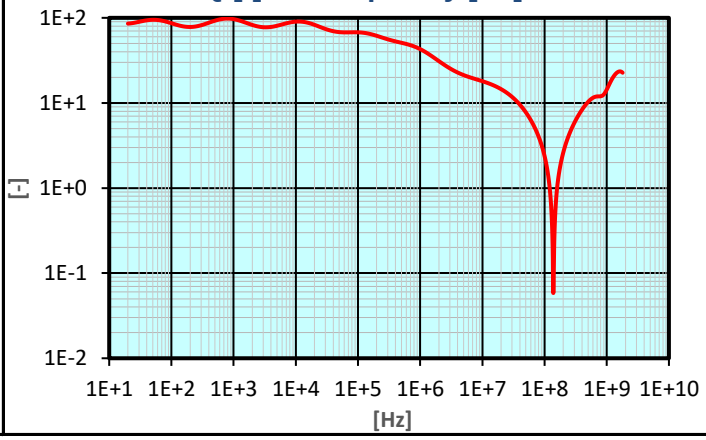
|ESL| [H] vs Frequency [Hz]



DF [%] vs Frequency [Hz]



Q [-] vs Frequency [Hz]



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0402YC182M4Z2A Datasheet

(0402 16V X7R 1.8nF ±20% AEC-Q200 FLEXITERM®)

How To Order

0805	5	C	103	M	A	T	2	A
Size (L" x W")	**Voltage** 4V = 4, 6.3V = 6, 10V = Z, 16V = Y, 25V = 3, 50V = 5, 100V = 1, 200V = 2, 500V = 7	**Dielectric** X7R = C	**Capacitance** Code (In pF) 2 Sig. Digits + Number of Zeros	**Capacitance Tolerance** J = ± 5%* K = ±10% M = ± 20% *≤1µF only, contact factory for additional values	**Failure Rate** A = Not Applicable 4=Automotive	**Terminations** T = Plated Ni and Sn Z= FLEXITERM®** *Optional termination **See FLEXITERM® X7R section	**Packaging** 2 = 7" Reel 4 = 13" Reel **Contact Factory For Multiples**	**Special Code** A = Std. Product

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.
Contact factory for non-specified capacitance values.

NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are beleived to be accurate and reliable, but are presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications.