

# 02016C101MAT2A Datasheet

(0201 6.3V X7R 100pF  $\pm 20\%$ )

To download data and  
simulation models visit: **SpiCAT**  
ONLINE TOOL

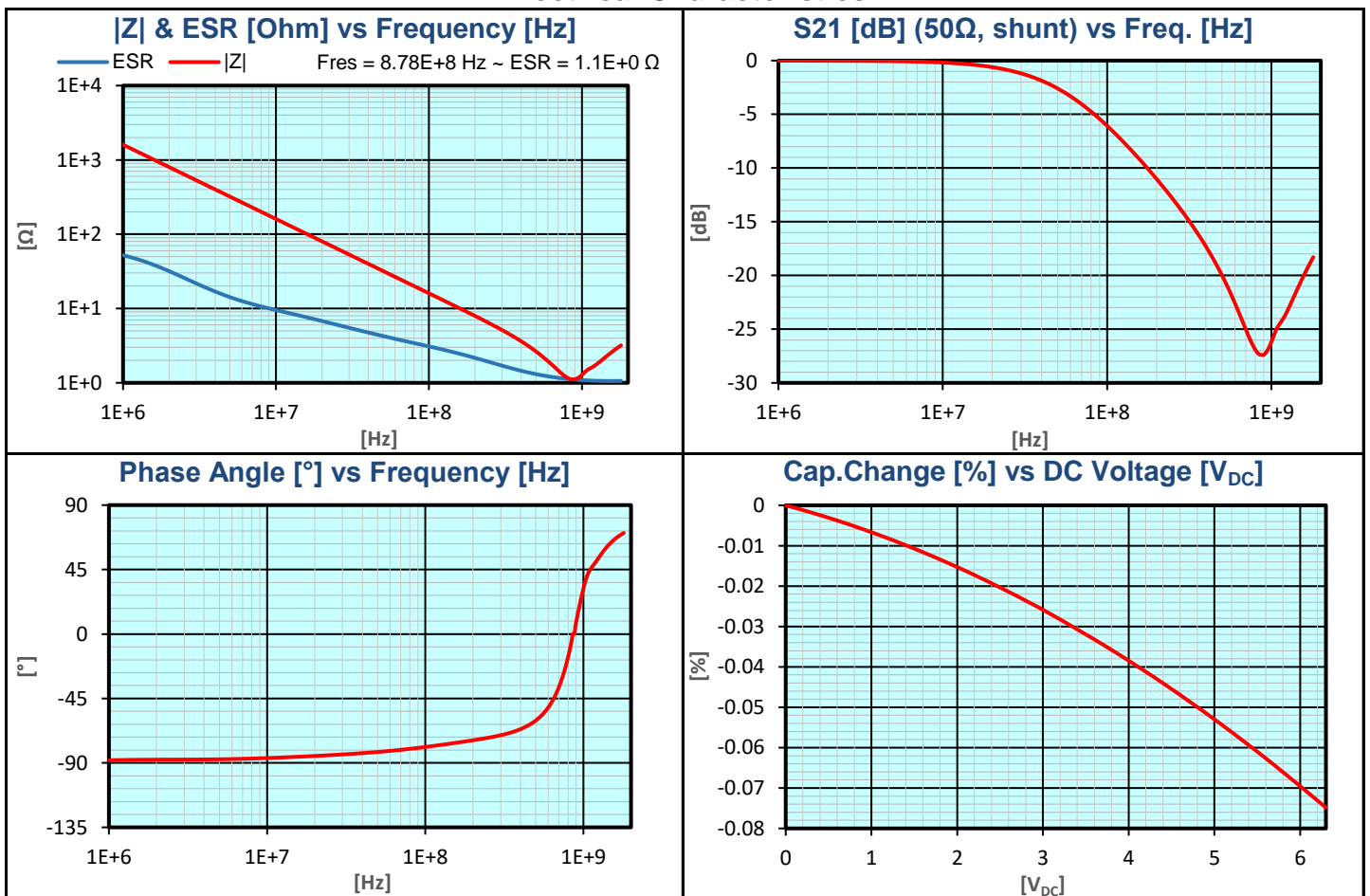


	millimetres	inches
L	$0.6 \pm 0.03$	$0.024 \pm 0.001$
W	$0.3 \pm 0.03$	$0.012 \pm 0.001$
T max.	0.33	0.013
t	$0.15 \pm 0.05$	$0.006 \pm 0.002$

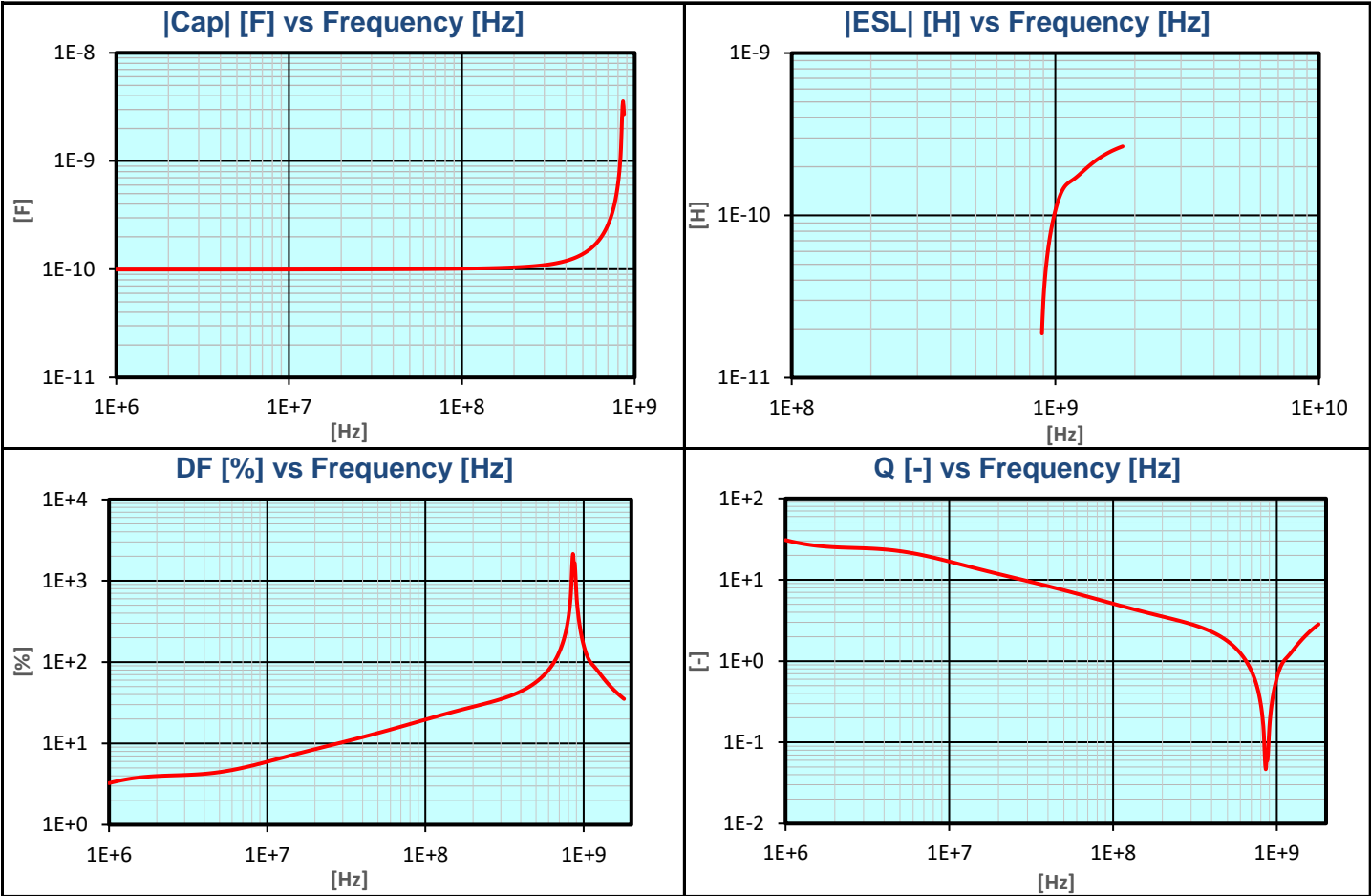
## Basic Specifications

Item	Unit	Spec.	Conditions
Capacitance	pF	80 to 120	@ 1 kHz, 1 Vrms
DF	%	12.5 max.	@ 1 kHz, 1 Vrms
IR	G $\Omega$	100 min.	@ 6.3 Vdc, t = 120 s
DWV	Vdc	15.75	@ I $\leq$ 50mA, t $\leq$ 5 s
Operating Temperature		-55°C to +125°C	
Dielectric		X7R	
AEC-Q200		Not qualified	
RoHS Compliant		Yes	
Termination		Sn	

## Electrical Characteristics



Electrical Characteristics



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## How To Order

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