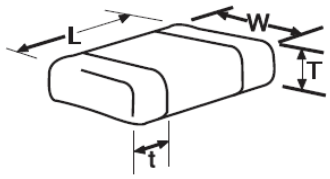
1210DD475KAT2A Datasheet

(1210 35V X5R 4.7uF ±10%)

To download data and simulation models visit: SpiCAT ONLINE TOOL

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Dimensions



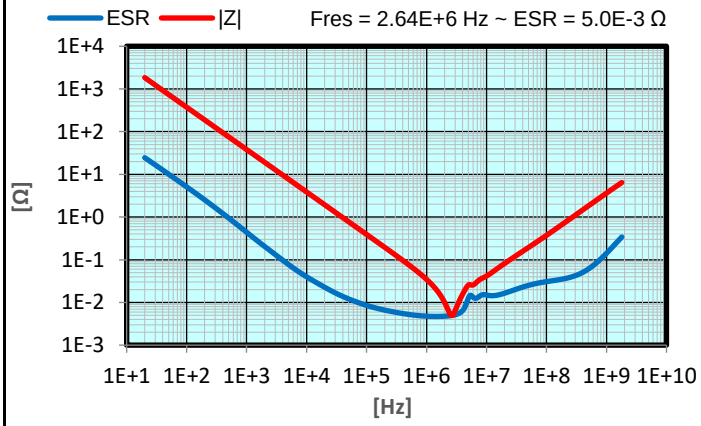
	millimetres (inches)
L	3.20 ± 0.40 (0.126 ± 0.016)
W	2.50 ± 0.30 (0.098 ± 0.012)
T max.	2.79 (0.11)
t	0.50 ± 0.25 (0.020 ± 0.010)

Basic Specifications

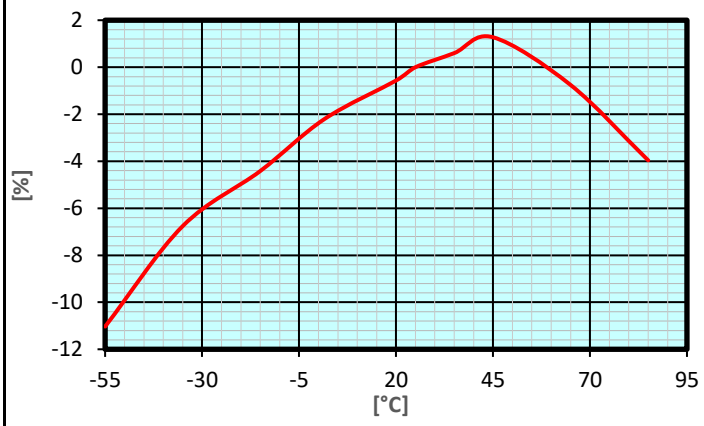
Item	*Unit*	*Spec.*	*Conditions*
Capacitance	uF	4.23 to 5.17	@ 1 kHz, 1 Vrms
DF	%	12.5 max.	@ 1 kHz, 1 Vrms
IR	MΩ	106.3 min.	@ 35 Vdc
DWV	Vdc	87.5	@ I ≤ 50mA, t ≤ 5 s
Operating Temperature		-55 °C to +85 °C	
Dielectric		X5R	
AEC-Q200		Not qualified	
RoHS Compliant		Yes	
Termination		Sn	

Electrical Characteristics

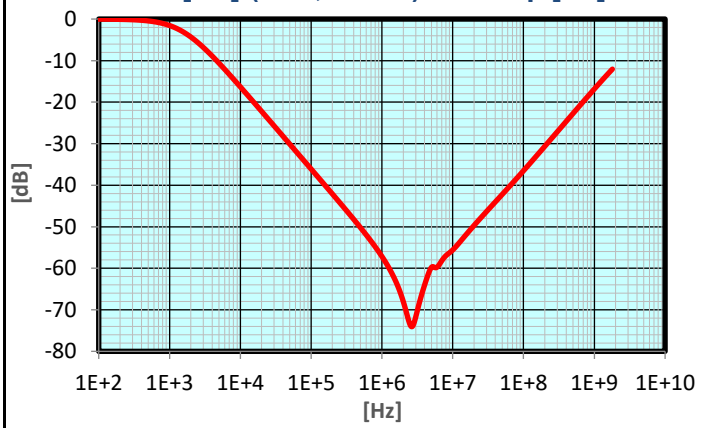
|Z| & ESR [Ohm] vs Frequency [Hz]



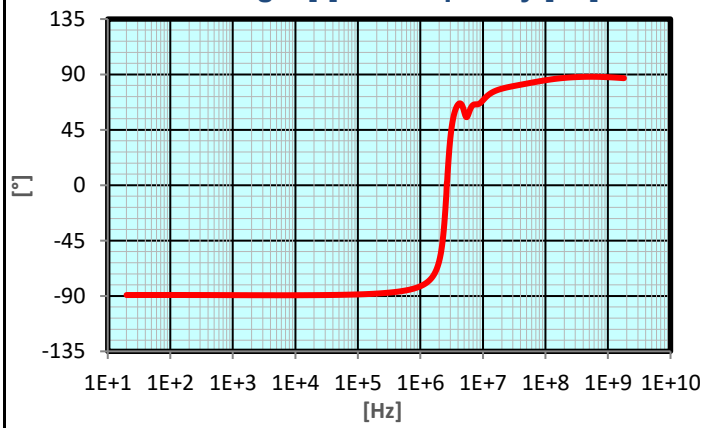
Cap.Change [%] vs Temperature [°C]



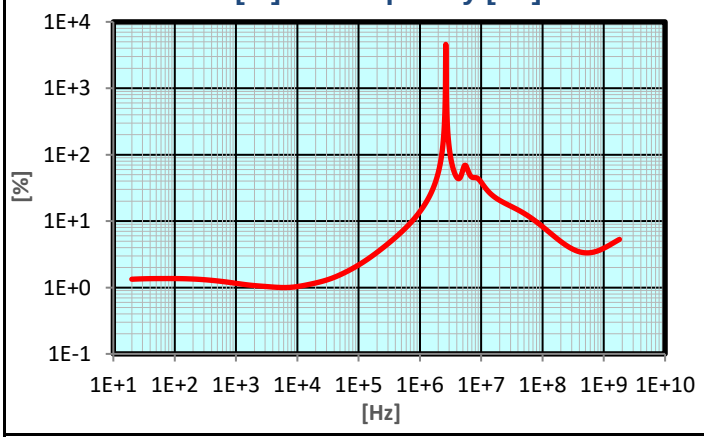
S21 [dB] (50Ω, shunt) vs Freq. [Hz]



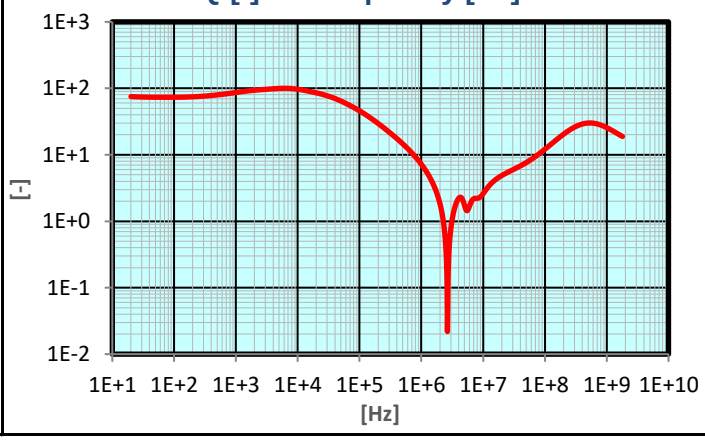
Phase Angle [°] vs Frequency [Hz]



DF [%] vs Frequency [Hz]



Q [-] vs Frequency [Hz]



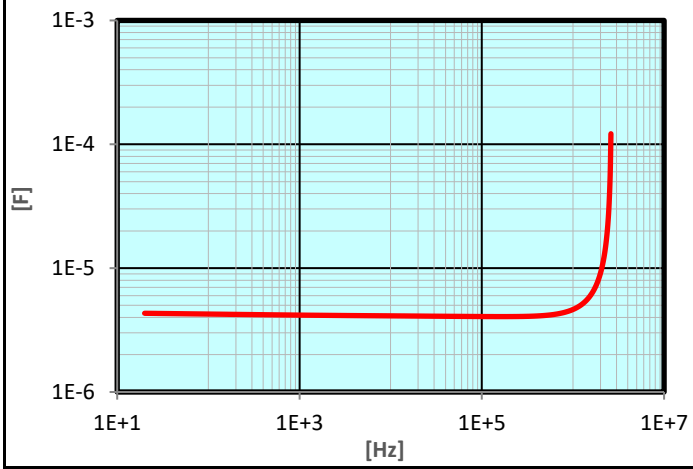
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1210DD475KAT2A Datasheet

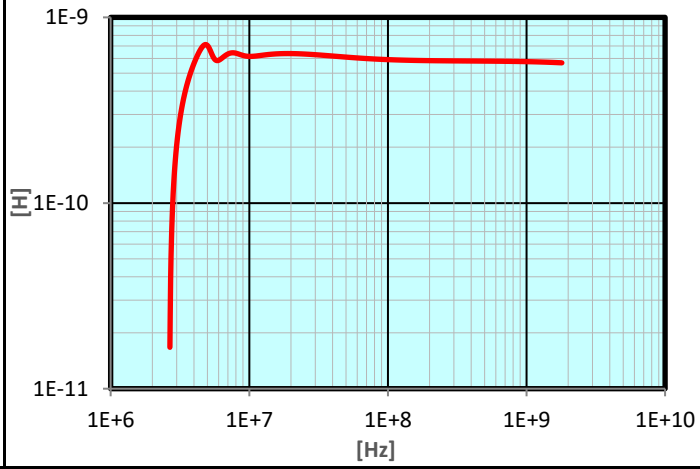
(1210 35V X5R 4.7uF ±10%)

Electrical Characteristics

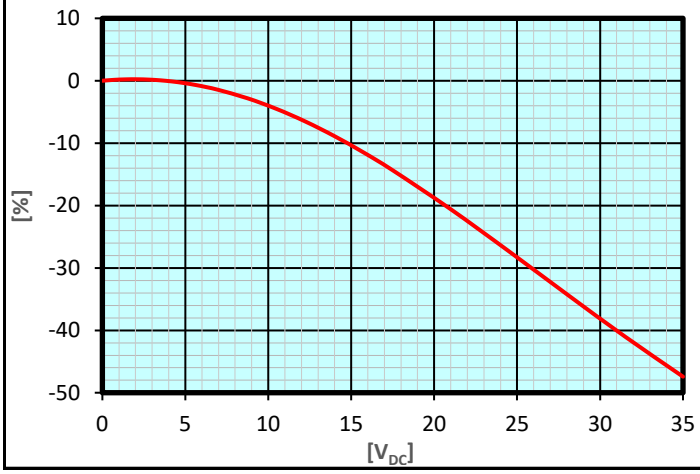
|Cap| [F] vs Frequency [Hz]



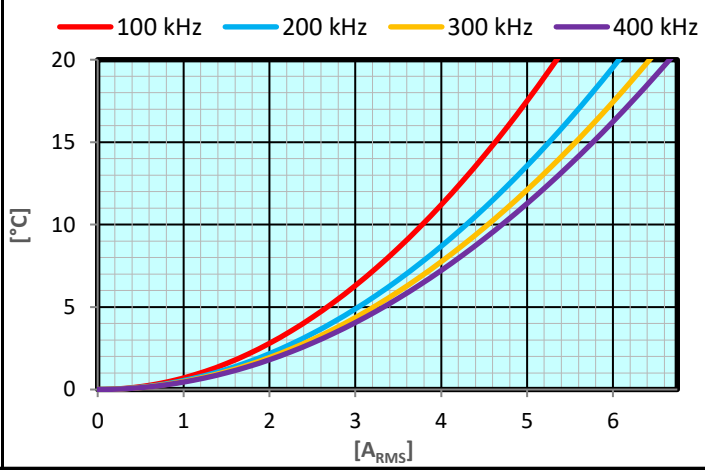
|ESL| [H] vs Frequency [Hz]



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
Case Size	**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		102 = 1000 pF					
1210	5 = 50 V		224 = 220000 pF					
1812	1 = 100 V		105 = 1µF					

*EIA 01005

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.

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