

KGF15AR71H102JT Datasheet

(0603 50 V X7R 1nF $\pm 5\%$ FLEXITERM®)

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



Dimensions

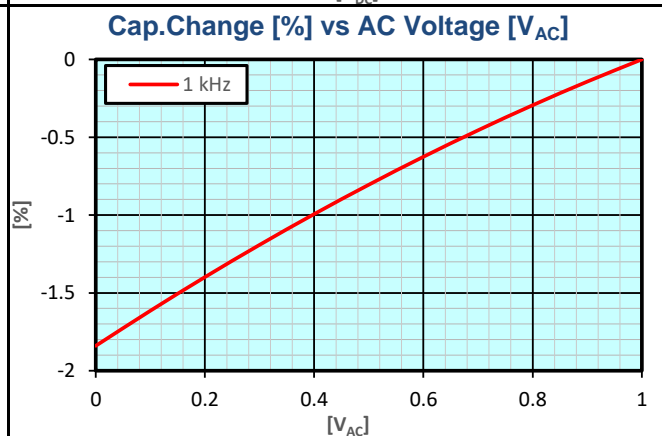
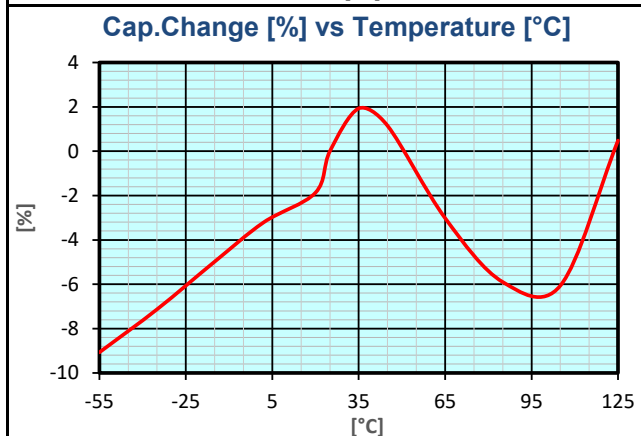
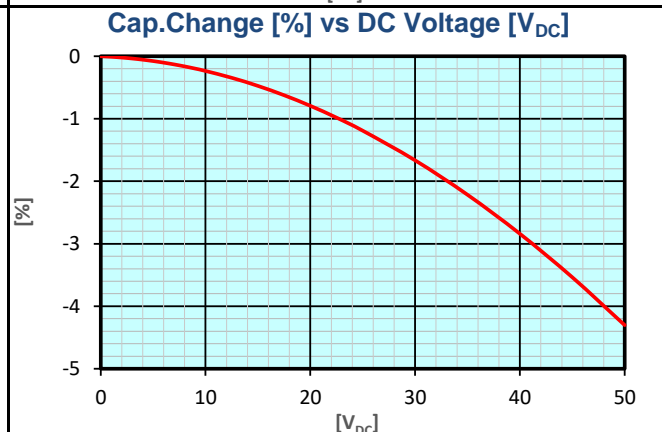
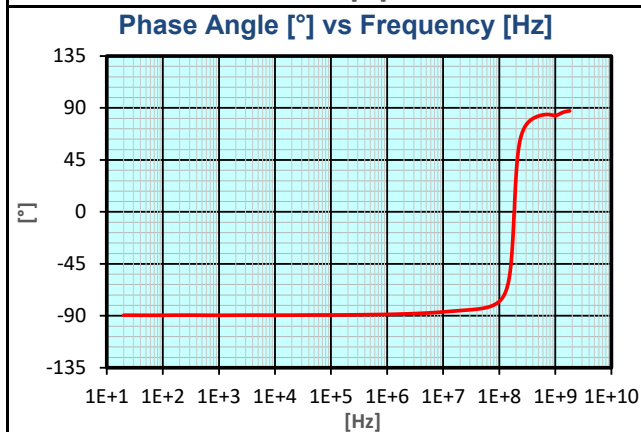
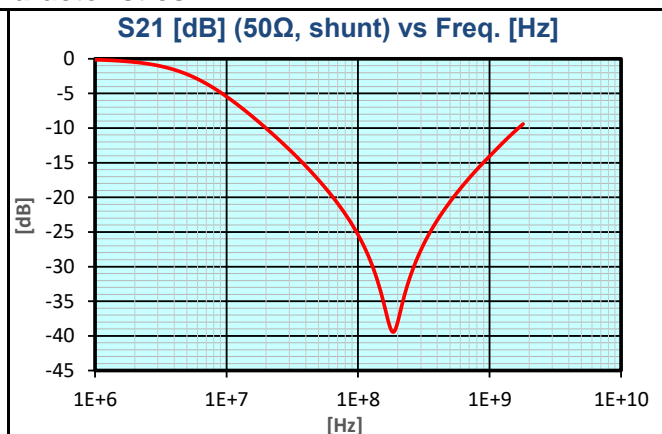
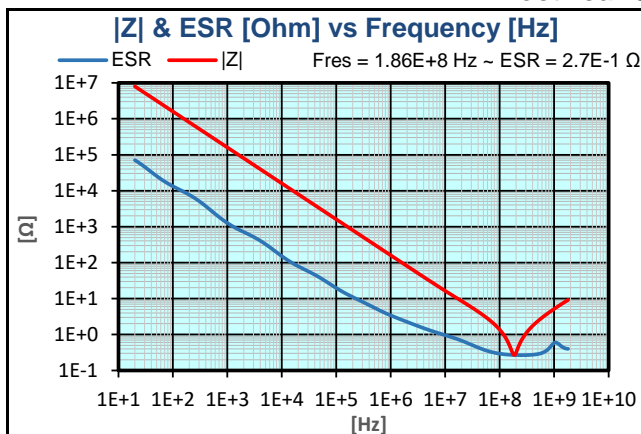


	millimetres	inches
L	1.6 \pm 0.15	0.063 \pm 0.006
W	0.81 \pm 0.15	0.032 \pm 0.006
T max.	0.9	0.035
t	0.35 \pm 0.15	0.014 \pm 0.006

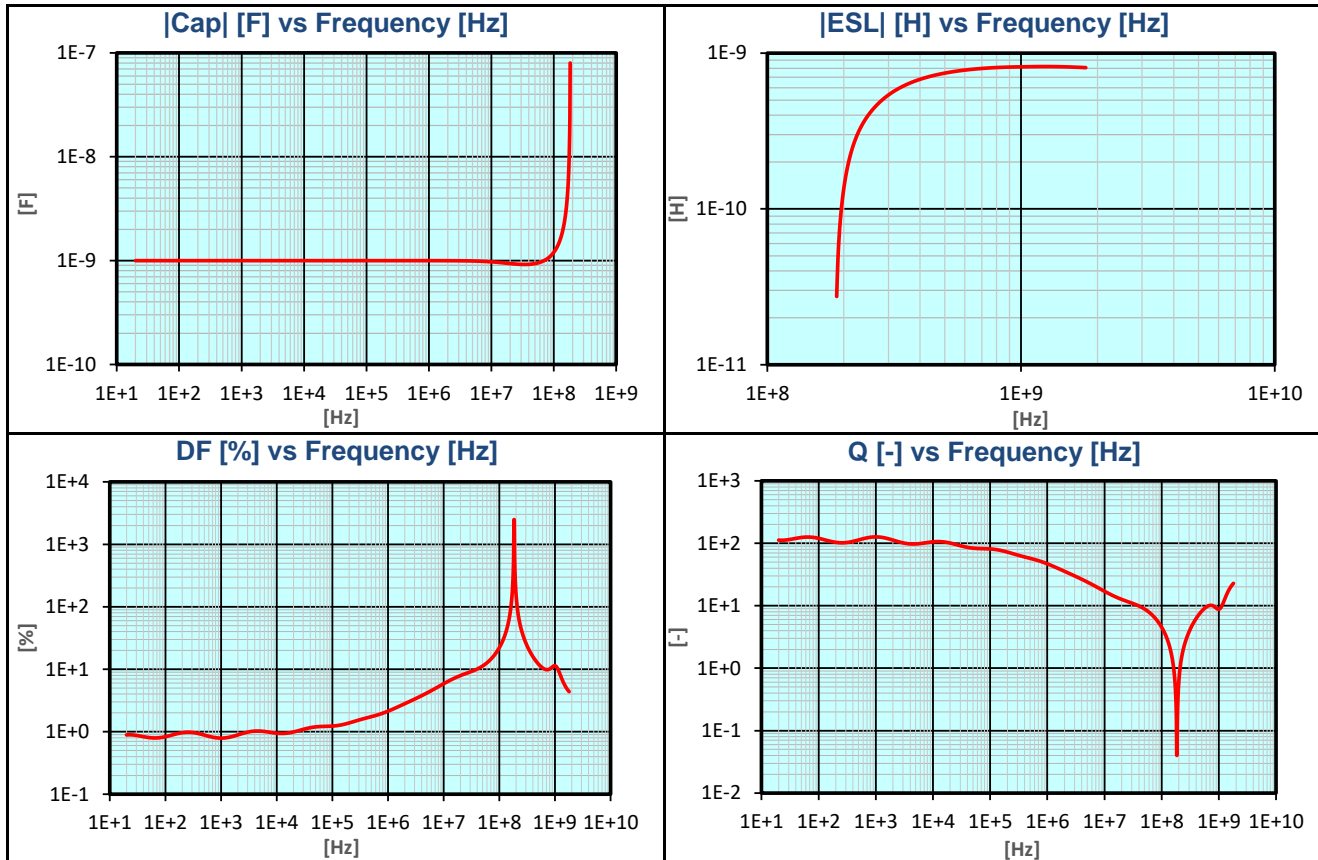
Basic Specifications

Item	Unit	Spec.	Conditions
Capacitance	nF	0.95 to 1.05	@ 1 kHz, 1 Vrms
DF	%	10 max.	@ 1 kHz, 1 Vrms
IR	G Ω	100 min.	@ 50 Vdc, t = 120 s
DWV	Vdc	125	@ I \leq 50mA, t \leq 5 s
Operating Temperature		-55°C to +125°C	
Dielectric		X7R	
Product Level		General	
RoHS Compliant		Yes	
Termination		FLEXITERM®	

Electrical Characteristics



Electrical Characteristics



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Part Number Information

K	G	M	21	C	R5	1E	103	K	T	###
Symbol:	Product Level:	Requirement:	Size:	Thickness:	Dielectric:	Voltage:	Capacitance:	Tolerance:	Packing:	Optional:
KAVX	G General	M Standard	Code: EIA:	See catalog	CG C0G	Multiplier: Base:	(2 significant digits + no of zeros)	A ± 0.05 pF B ± 0.1 pF C ± 0.25 pF D ± 0.5 pF F ± 1 % G ± 2 % J ± 5 % K ± 10 % M ± 20 %	H T U Y V M L N K S	See catalog for optional codes
	A Automotive (AEC-Q200)	U Hi-Q (Special function)	02 01005	for list of codes	R5 X5R	0 1x A 1				
	M Medical	E ESD (Special function)	03 0201		S6 X6S	1 10x N 1.5				
		L Low Inductance reverse Geometry	05 0402		T6 X6T	2 100x D 2	Examples: 100 = 10 pF 102 = 1000 pF 224 = 220 nF 105 = 1 µF			
		A Low Inductance LGA	15 0603		R7 X7R	3 1000x E 2.5				
		F Flexitem (Special function/structure)	21 0805		S7 X7S	U 3				
		S Flexisafe (Special function/structure)	31 1206		T7 X7T	V 3.5				
		G Gold Termination (Special Structure)	32 1210		R8 X8R	G 4				
		C IDC (Special structure)	42 1808		L8 X8L	H 5				
		Q Ultra Low ESR	43 1812		G8 X8G	J 6.3				
			44 1825		V5 Y5V					
			55 2220							
			56 2225							
			91 3640							
						Example: 1E = 25V (10 x 2.5)				
									X Waffle pack	

Note:
* See catalog for more information.

NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed 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.