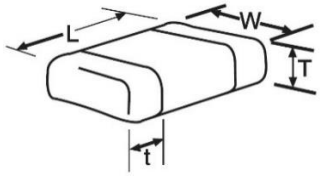
KAM31NR81H104KU Datasheet

(1206 50 V X8R 100nF ±10% AEC-Q200)

Dimensions

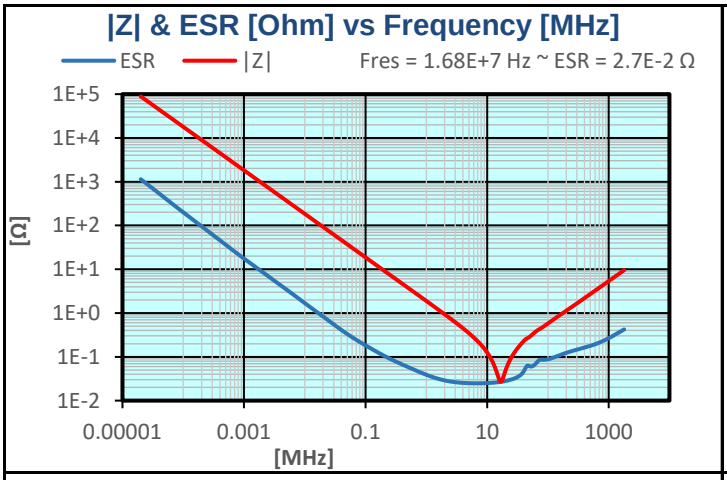


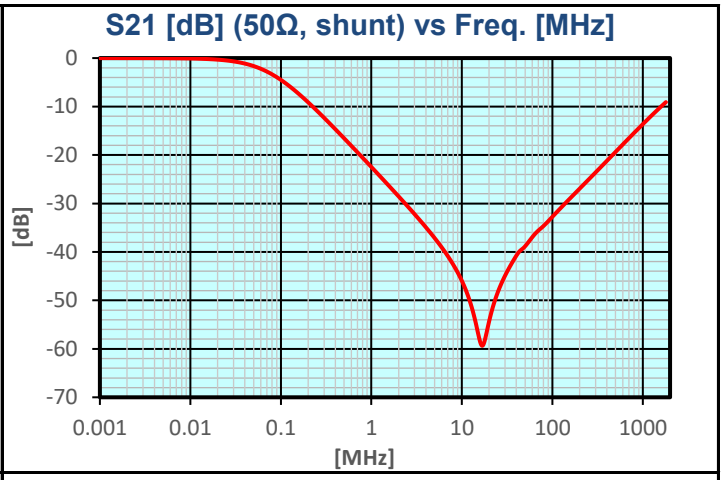
	millimetres	*inches*
L	3.2 ± 0.2	0.126 ± 0.008
W	1.6 ± 0.2	0.063 ± 0.008
T max.	1.27	0.05
t	0.5 ± 0.25	0.02 ± 0.01

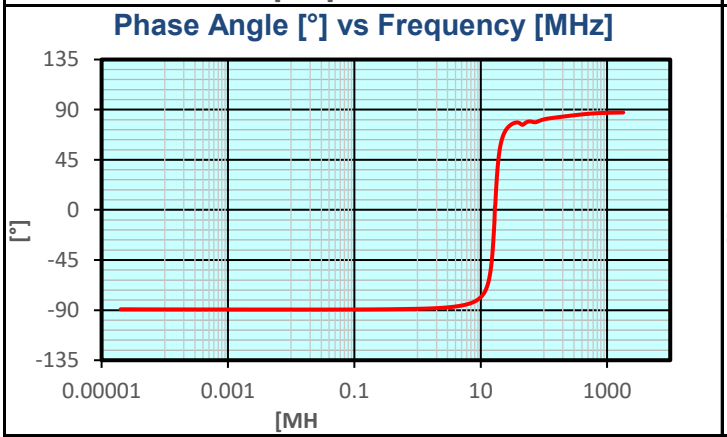
Basic Specifications

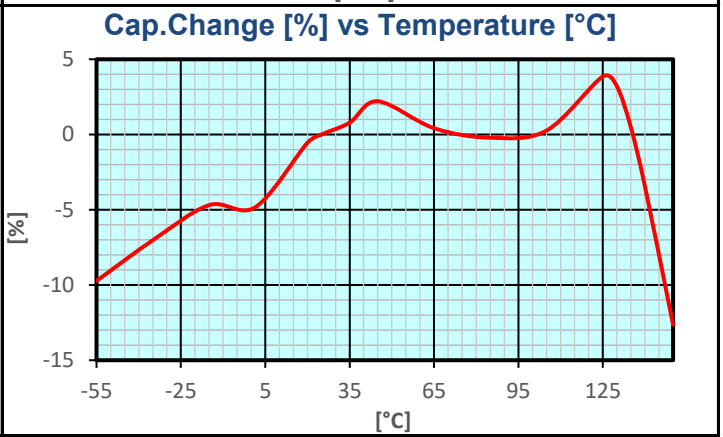
Item	*Unit*	*Spec.*	*Conditions*
Capacitance	nF	90 to 110	@ 1 kHz, 1 Vrms
DF	%	2.5 max.	@ 1 kHz, 1 Vrms
IR	GΩ	10 min.	@ 50 Vdc
DWV	Vdc	125	@ I ≤ 50mA, t ≤ 5 s
Operating Temperature		-55°C to +150°C	
Dielectric		X8R	
Product Level		AEC-Q200	
RoHS Compliant		Yes	
Termination		Sn	

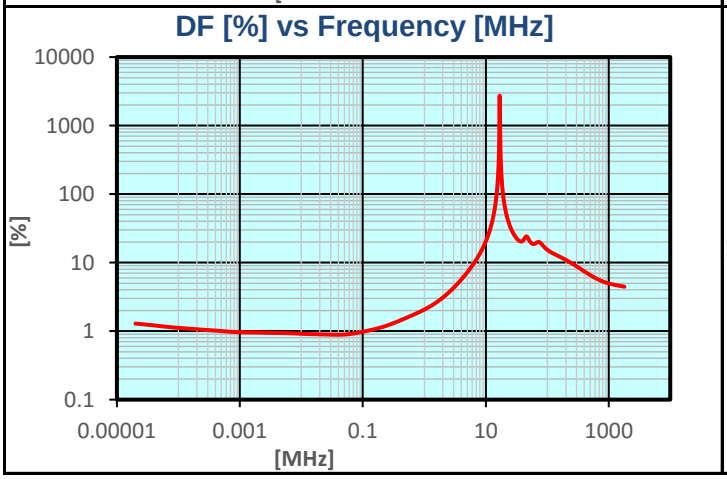
Electrical Characteristics

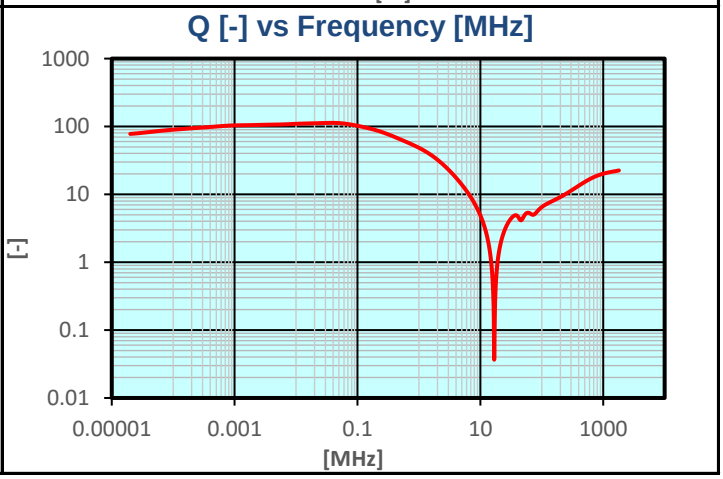








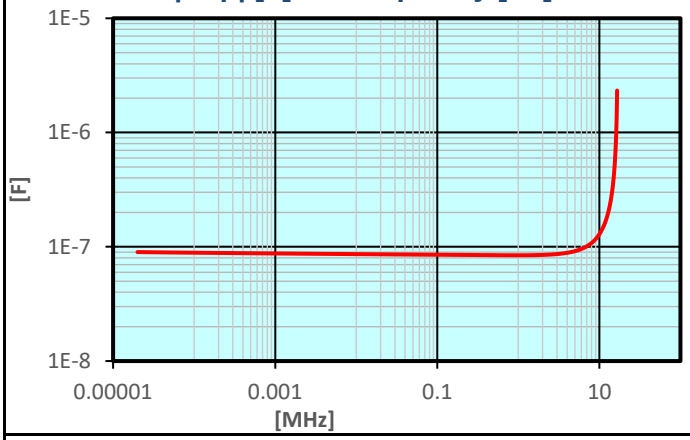




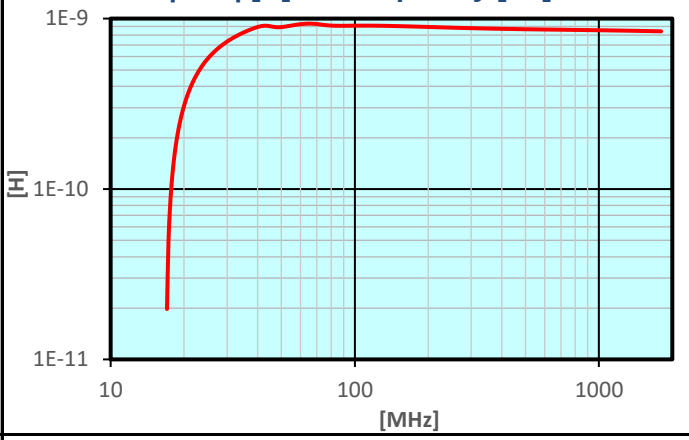
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Electrical Characteristics

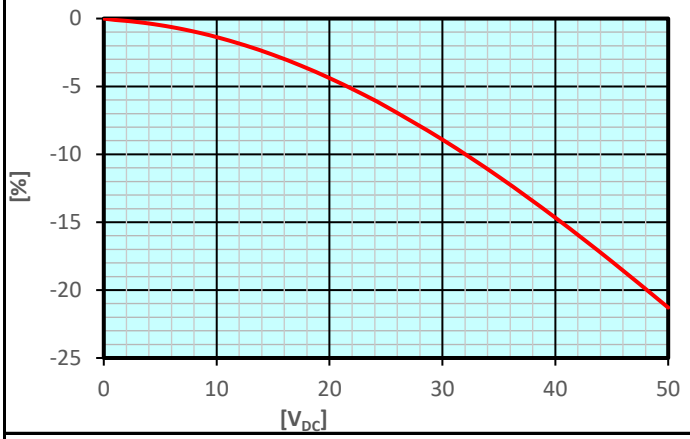
|Cap| [F] vs Frequency [Hz]



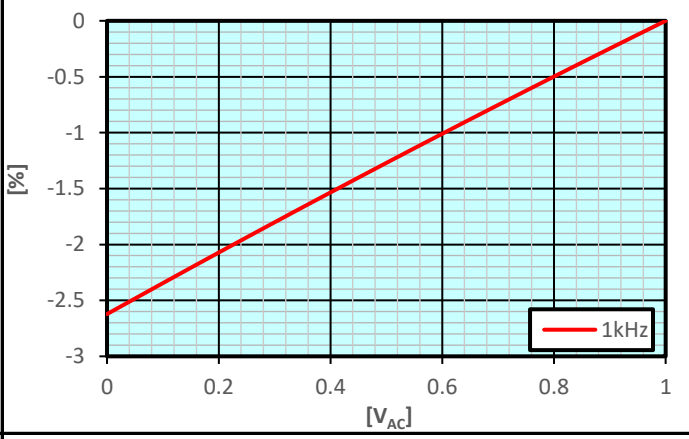
|ESL| [H] vs Frequency [Hz]



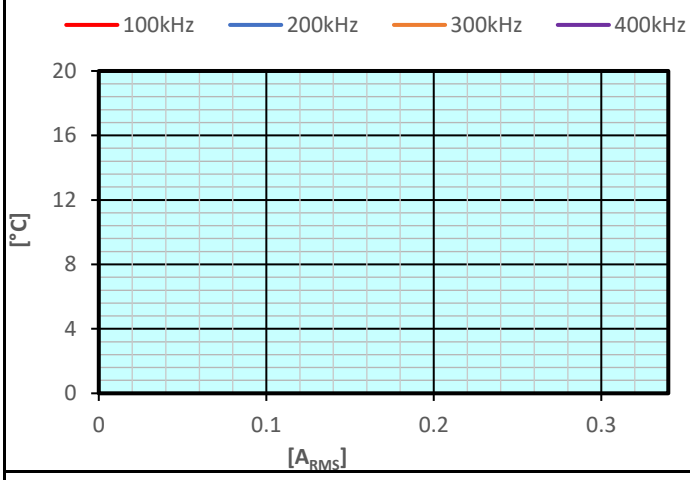
Cap.Change [%] vs DC Voltage [V_{DC}]



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



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



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KAM31NR81H104KU Datasheet

(1206 50 V X8R 100nF ±10% AEC-Q200)

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 for list of codes	CG C0G	**Multiplier:** **Base:**	(2 significant digits + no of zeros)	A ± 0.05 pF	H	See catalog for optional codes
	A Automotive (AEC-Q200)	U Hi-Q (Special function)	02 01005		R5 X5R	0 1x A 1		B ± 0.1 pF	T	
	M Medical	E ESD (Special function)	03 0201		S6 X6S	1 10x N 1.5	**Examples:**	C ± 0.25 pF	U	Φ 180 (7 inch)*
		L Low inductance reverse Geometry	05 0402		T6 X6T	2 100x D 2	100 = 10 pF	D ± 0.5 pF	Y	
		A Low Inductance LGA	15 0603		R7 X7R	3 1000x E 2.5	102 = 1000 pF	F ± 1 %	V	
		F Flexiterm (Special function/structure)	21 0805		S7 X7S	U 3	224 = 220 nF	G ± 2 %		
		S Flexisafe (Special function/structure)	31 1206		T7 X7T	V 3.5	105 = 1 µF	J ± 5 %	M	
		G Gold Termination (Special Structure)	32 1210		R8 X8R	G 4		K ± 10 %	L	
		C IDC (Special structure)	42 1808		L8 X8L	H 5		M ± 20 %	N	Φ 330 (13 inch)*
		Q Ultra Low ESR	43 1812		G8 X8G	J 6.3			K	
			44 1825		V5 Y5V				S	
			55 2220			**Example:**				
			56 2225			1E = 25V (10 x 2.5)			X	Waffle pack
			91 3640							

Note:
* See catalog for more information.

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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