

# KAF05AR71E681MH Datasheet

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(0402 25 V X7R 680pF  $\pm 20\%$  AEC-Q200 FLEXITERM®)

## Dimensions

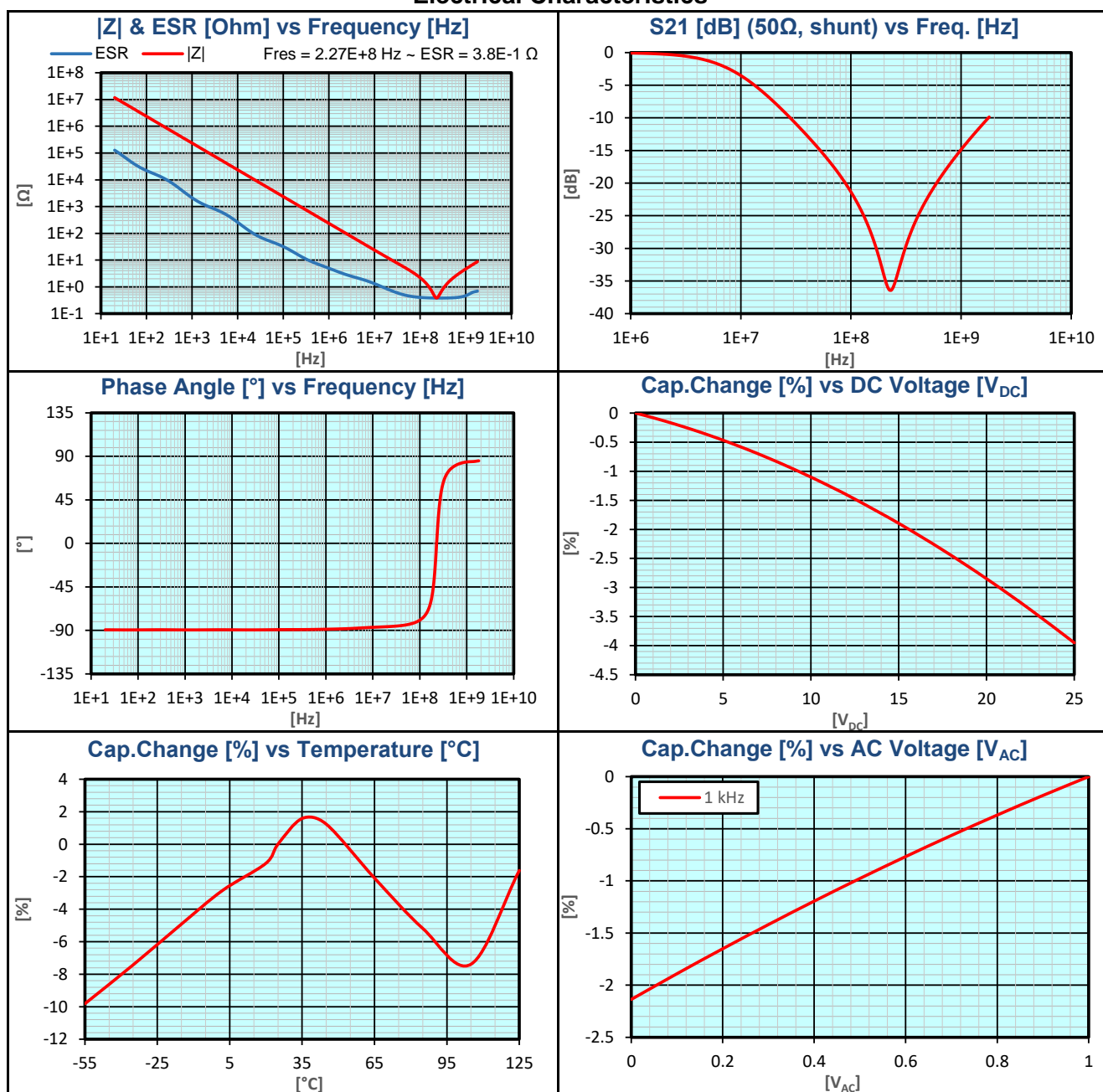


	millimetres	inches
L	$1 \pm 0.1$	$0.039 \pm 0.004$
W	$0.5 \pm 0.1$	$0.02 \pm 0.004$
T max.	0.56	0.022
t	$0.25 \pm 0.15$	$0.01 \pm 0.006$

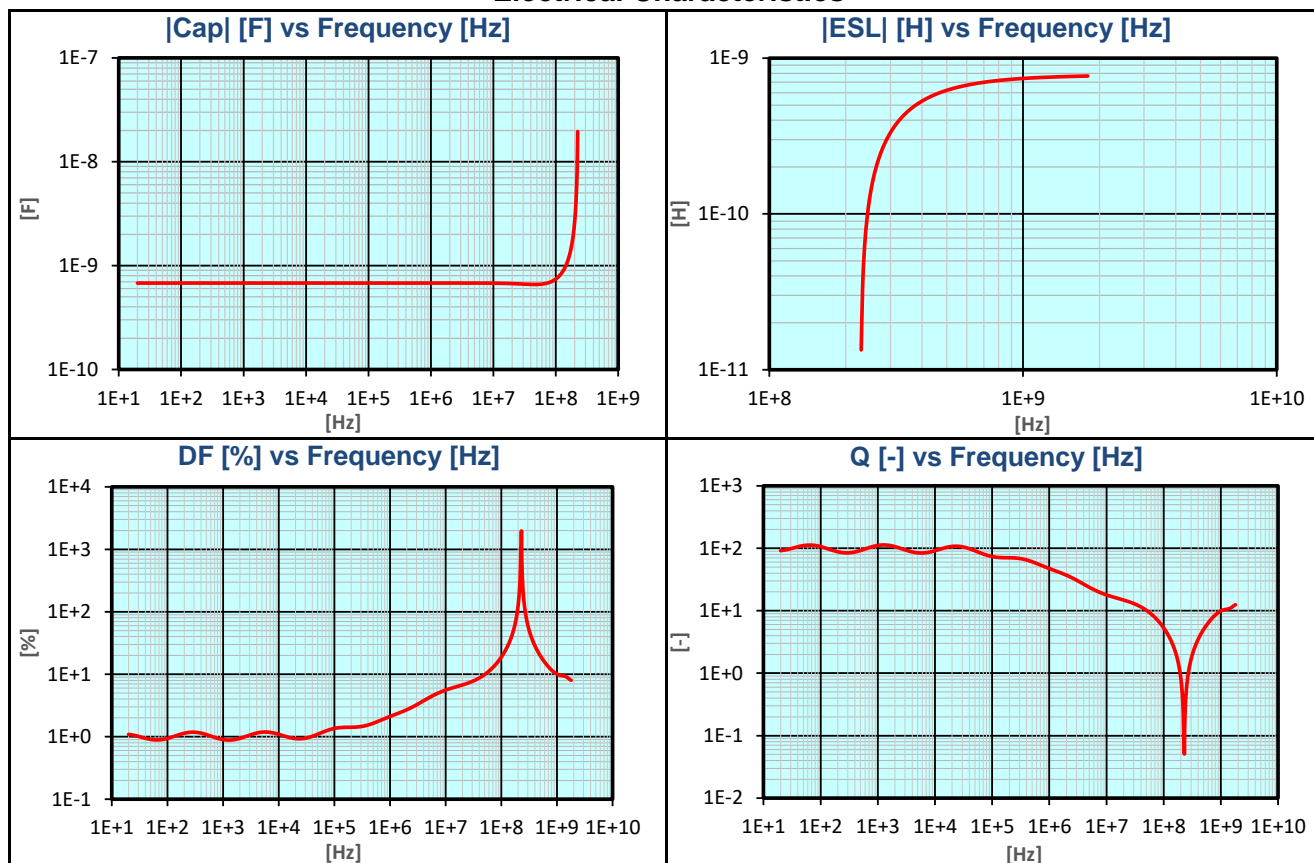
## Basic Specifications

Item	Unit	Spec.	Conditions
Capacitance	pF	544 to 816	@ 1 kHz, 1 Vrms
DF	%	3 max.	@ 1 kHz, 1 Vrms
IR	GΩ	100 min.	@ 25 Vdc, t = 120 s
DWV	Vdc	62.5	@ I ≤ 50mA, t ≤ 5 s
Operating Temperature		-55°C to +125°C	
Dielectric		X7R	
Product Level		AEC-Q200	
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	H	See catalog for optional codes
A Automotive	U Hi-Q (Special function)	E ESD (Special function)	02 01005	for list of codes	R5 X5R	0 1x A 1		B ± 0.1 pF	T	
(AEC-Q200)	E ESD (Special function)	L Low Inductance reverse Geometry	03 0201		S6 X6S	1 10x N 1.5		C ± 0.25 pF	U	
M Medical	A Low Inductance LGA	F Flexitem (Special function/structure)	05 0402		T6 X6T	2 100x D 2		D ± 0.5 pF	Y	
	S Flexisafe (Special function/structure)	G Gold Termination (Special Structure)	15 0603		R7 X7R	3 1000x E 2.5		F ± 1 %	V	Φ 180 (7 inch)*
	C IDC (Special structure)	Q Ultra Low ESR	21 0805		S7 X7S	U 3		G ± 2 %	M	
			31 1206		T7 X7T	V 3.5		J ± 5 %	L	
			32 1210		R8 X8R	G 4		K ± 10 %	N	
			42 1808		L8 X8L	H 5		M ± 20 %	K	Φ 330 (13 inch)*
			43 1812		G8 X8G	J 6.3			S	
			44 1825		V5 Y5V					
			55 2220							
			56 2225							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 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.