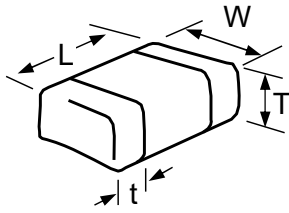


KAM05AR70E105M#

(0402, 2.5V, X7R, 1 μ F, +/-20 %, AEC-Q200, Sn Term)
Multilayer Ceramic Chip Capacitor Datasheet



DIMENSIONS



	millimetres	inches
L	1.0 $\pm$ 0.05	0.04 $\pm$ 0.002
W	0.5 $\pm$ 0.05	0.02 $\pm$ 0.002
T max.	0.55	0.022
t	0.15 to 0.35	0.006 to 0.014

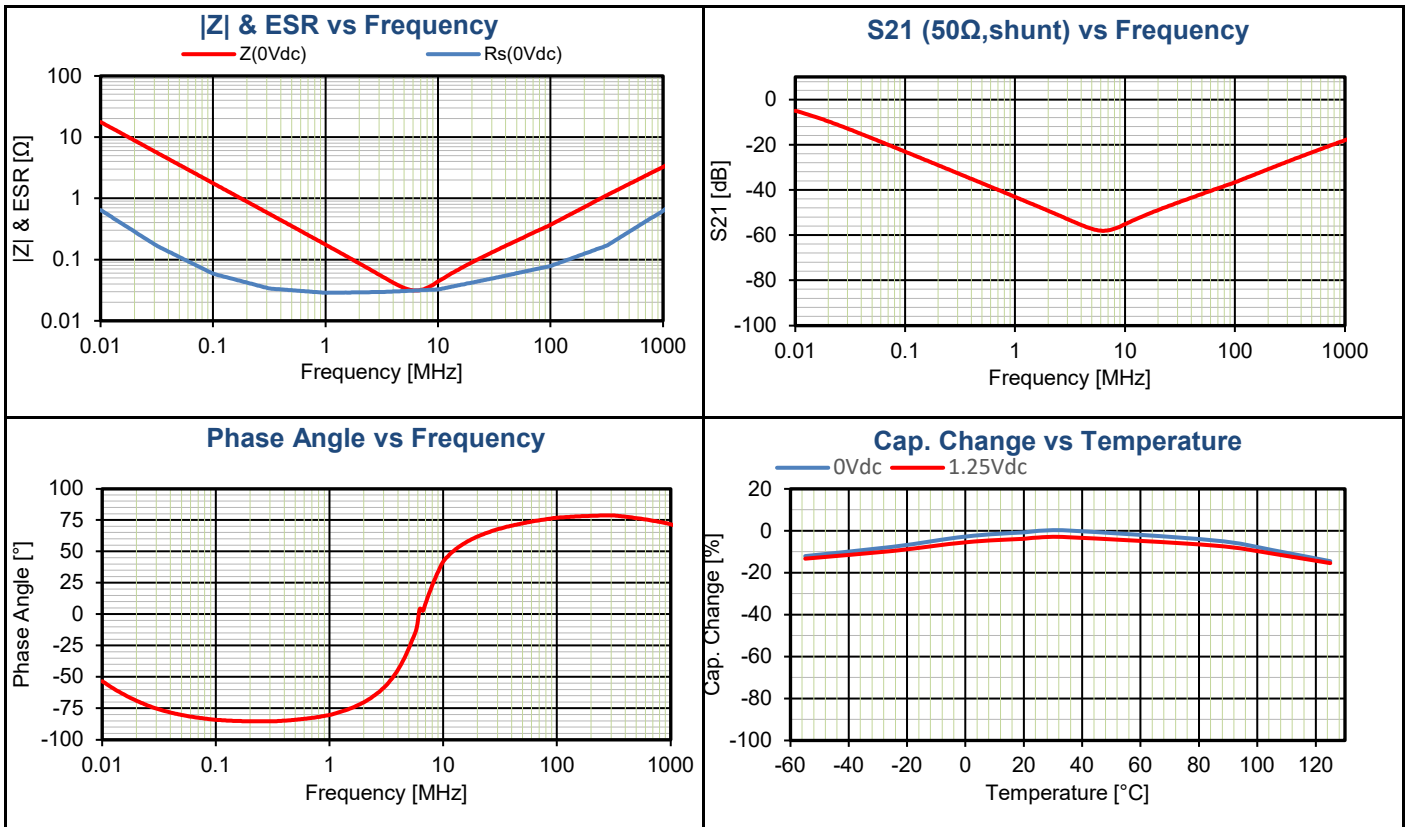
*Inch is for reference only.

BASIC SPECIFICATIONS

Item	Spec.	Conditions
Rated Voltage	2.5 V	
Capacitance	1 μ F	1kHz, 0.5Vrms
Capacitance Tolerance	+/-20 %	
DF Max	7.5 %	1kHz, 0.5Vrms
IR Min	50 M Ω	2.5Vdc, t=60s
DWV	6.25 Vdc	I $\leq$ 50mA, t $\leq$ 5 s

Case Size EIA (JIS)	0402(1005)
Operating Temperature	-55°C to +125°C
Dielectric	X7R
Grade	AEC-Q200
RoHS Compliant	Yes
Termination	Sn
Packaging	T&R 7in (180mm) & T&R 13in (330mm)

ELECTRICAL CHARACTERISTICS

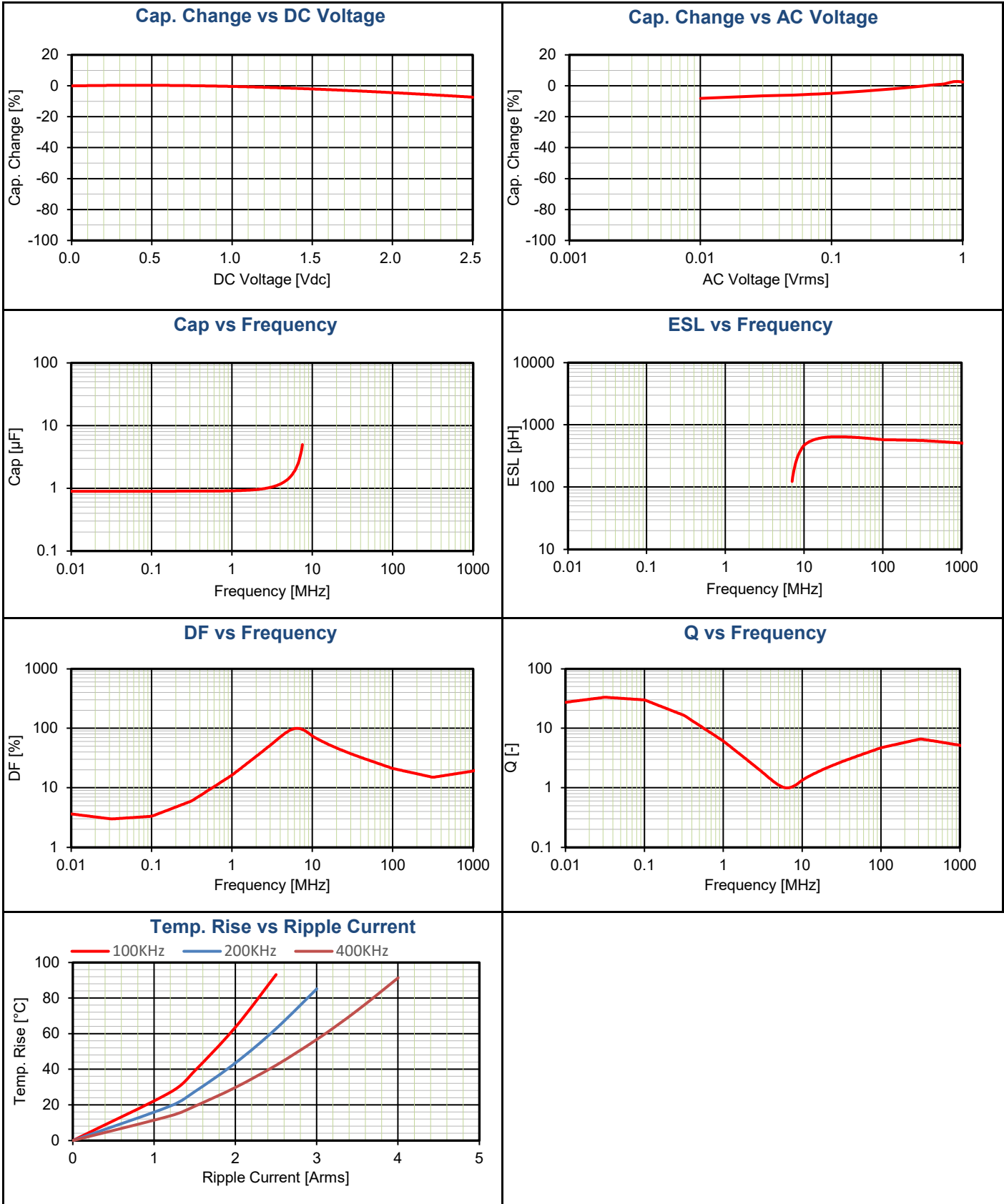


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ELECTRICAL CHARACTERISTICS



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PART NUMBER INFORMATION

K	A	M	05	A	R7	0E	105	M	#	□□□□																									
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.																									
1.Symbol KAVX		5.Thickness See catalog for list of codes			8.Capacitance Capacitance expressed in pF 2 significant digits + No. of zeros For Values < 10pF Letter R denotes decimal point Example R50 0.5pF 1R0 1pF 100 10pF 101 100pF 103 10nF 105 1μF 107 100μF			10.Packing T&R 180mm(7in) H T U Y V P Q T&R 330mm(13in) M L N K S W Waffle X																											
2.Grade G General A Automotive (AEC-Q200) M Medical		6.Dielectric CG C0G CH C0H R5 X5R S6 X6S T6 X6T R7 X7R S7 X7S T7 X7T R8 X8R L8 X8L G8 X8G V5 Y5V K7 X7R(KAVX)			9.Tolerance A +/-0.05pF B +/-0.1pF C +/-0.25pF D +/-0.5pF F +/-1% G +/-2% J +/-5% K +/-10% M +/-20% Z +80/-20%			11.Option See catalog for optional codes																											
3.Requirement M Standard U Hi-Q E ESD T Low Profile L Low Inductance A Low Inductance (LGA) F Flexiterm® S Flexisafe Q Ultra Low ESR N 3term		7.Voltage <table><tr><th>Multiplier</th><th>Base</th></tr><tr><td>0 1x</td><td>A 1</td></tr><tr><td>1 10x</td><td>N 1.5</td></tr><tr><td>2 100x</td><td>C 1.6</td></tr><tr><td>3 1000x</td><td>D 2</td></tr><tr><td></td><td>E 2.5</td></tr><tr><td></td><td>U 3</td></tr><tr><td></td><td>V 3.5</td></tr><tr><td></td><td>G 4</td></tr><tr><td></td><td>H 5</td></tr><tr><td></td><td>J 6.3</td></tr></table> Example 1E = 25V (10 x 2.5)			Multiplier	Base	0 1x	A 1	1 10x	N 1.5	2 100x	C 1.6	3 1000x	D 2		E 2.5		U 3		V 3.5		G 4		H 5		J 6.3									
Multiplier	Base																																		
0 1x	A 1																																		
1 10x	N 1.5																																		
2 100x	C 1.6																																		
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	E 2.5																																		
	U 3																																		
	V 3.5																																		
	G 4																																		
	H 5																																		
	J 6.3																																		
4.Size 02 01005 03 0201 05 0402 15 0603 21 0805 31 1206 32 1210 42 1808 43 1812 44 1825 55 2220 56 2225 91 3640																																			

Please check catalog for part number availability

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.