



MULTILAYER CERAMIC HIGH FREQUENCY CAPACITORS

T Y P E V

CONSTRUCTION

1. Ceramic Dielectric
2. Inner Electrode (Palladium/Silver)
3. Inner Termination (Palladium/Silver)
4. Nickel Barrier Layer
5. Solder Plating

DIMENSIONS

Unit : mm (inch)

Type (EIA)	L	W	T	e
EVK105	1.0 ± 0.05	0.5 ± 0.05	0.5 ± 0.05	0.25 - 0.1
(0402)	(0.039 ± 0.002)	(0.020 ± 0.002)	(0.020 ± 0.002)	(0.010 ± 0.004)

FEATURES

- Q values in the high frequency range (1 GHz+) are excellent compared to other types of multilayer capacitors.
- The 1005(0402) case size is designed for high density mounting and weight reduction in various applications.

APPLICATIONS

- Suitable for those high frequency applications in which a capacitor with both a high Q-value and small size is required such as portable communications and other wireless applications.

ORDERING INFORMATION

E 16V (VDC)	V Type	K Solder plated (End Termination)	105 Case Size (0402)	RH	4R3 Capacitance (pF) Example — 3 digit code 4R3 = 4.3 pF (R = Decimal Pt.) 020 = 2pF	B Tolerance B = ±0.1pF J = ±5%	W Thickness 0.5 mm	—	T Tape & Reel (2mm Pitch)
----------------	-----------	---	----------------------------	----	--	---	--------------------------	---	---------------------------------

T.C.	PPM/°C
CH	0 ± 60
RH	-220 ± 60

MULTILAYER CERAMIC HIGH FREQUENCY CAPACITORS — TYPE V

SPECIFICATIONS

Rated Voltage (DC)	Part Numbers	Temperature Characteristics		Capacitance [pF]	Capitance Tolerance	(at 1GHz) Q (min)	Thickness [mm]	Typical Q Value	
		CH	RH						
16V	EVK105CH0R5BW			0.5	±0.1pF	300	0.5 ± 0.05	1200	
	EVK105CH0R6BW			0.6		300		1100	
	EVK105CH0R7BW			0.7		300		1100	
	EVK105CH0R8BW			0.8		300		1000	
	EVK105CH0R9BW			0.9		300		950	
	EVK105CH010BW			1.0		300		950	
	EVK105CH1R1BW			1.1		280		930	
	EVK105CH1R2BW			1.2		270		850	
	EVK105CH1R3BW			1.3		260		740	
	EVK105CH1R5BW			1.5		240		710	
	EVK105CH1R6BW			1.6		230		670	
	EVK105CH1R8BW			1.8		210		650	
	EVK105CH020BW			2.0		190		610	
	EVK105CH2R2JW			2.2		±5%		180	530
	EVK105CH2R4JW			2.4	170			510	
	EVK105CH2R7JW			2.7	150			460	
	EVK105CH030JW			3.0	130			390	
	EVK105CH3R3JW			3.3	120			370	
	EVK105CH3R6JW			3.6	110			360	
	EVK105CH3R9JW			3.9	99			360	
	EVK105CH4R3JW			4.3	84			360	
	EVK105CH4R7JW			4.7	84			340	
	EVK105CH5R1JW			5.1	84			320	
	EVK105RH0R5BW			0.5	±0.1pF			300	1100
	EVK105RH0R6BW			0.6				300	1000
	EVK105RH0R7BW			0.7				300	1000
	EVK105RH0R8BW			0.8				300	970
	EVK105RH0R9BW			0.9		300		950	
	EVK105RH010BW			1.0		300		900	
	EVK105RH1R1BW			1.1		280		900	
	EVK105RH1R2BW			1.2		270		740	
	EVK105RH1R3BW			1.3		260		700	
	EVK105RH1R5BW			1.5		240		680	
	EVK105RH1R6BW			1.6		230		640	
	EVK105RH1R8BW			1.8		210		620	
	EVK105RH020BW			2.0		190		570	
	EVK105RH2R2JW			2.2		±5%		180	480
	EVK105RH2R4JW			2.4	170			470	
	EVK105RH2R7JW			2.7	150			420	
	EVK105RH030JW			3.0	130			360	
EVK105RH3R3JW			3.3	120	350				
EVK105RH3R6JW			3.6	110	340				
EVK105RH3R9JW			3.9	99	340				
EVK105RH4R3JW			4.3	84	340				
EVK105RH4R7JW			4.7	84	320				
EVK105RH5R1JW			5.1	84	310				

Temperature Characteristics

Temperature Characteristics	Operating Temperature Range	Temperature Coefficient range [ppm/°C]	Capacitance Tolerance
CH	-55~+125°C	0±60	±0.1pF (~2.0pF)
RH		-220±60	±5% (2.2pF~)

STANDARD PACKING QUANTITY

Material	Qty/Reel	Packing Code
Paper Tape	10,000	T
Bulk	1,000	B

CAPACITANCE VS. Q VALUE (CH T.C.)

