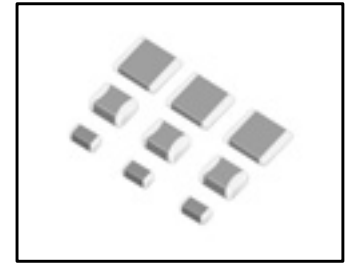


MEDIUM/HIGH VOLTAGE MULTILAYER CERAMIC CAPACITORS [VH Series]

■ Features

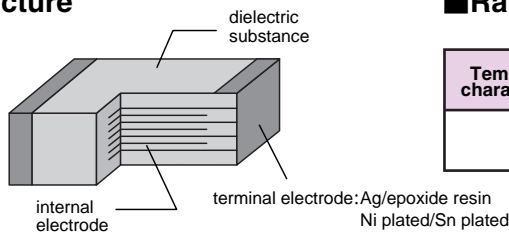
- Small change in capacitance value under DC bias voltage.
- Superior in bias characteristics.
- No polarity and excellent frequency characteristics.
- RoHS Compliant.



■ Applications

- Stroboscopic circuit.
- Power supply snubber circuit.

■ Structure



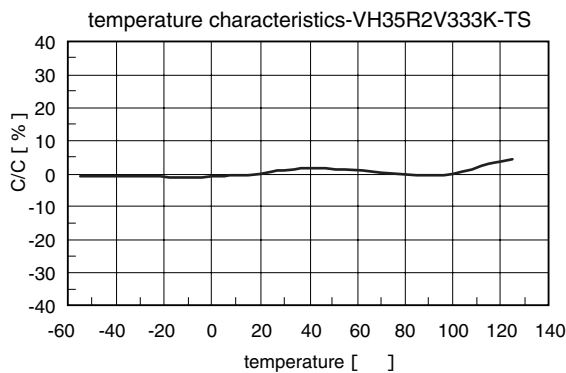
■ Range of Use

Temperature characteristics	EIA symbol	Capacitance change	Temperature range	Capacitance tolerance
R	X7R	±15%	-55~+125	K (±10%)

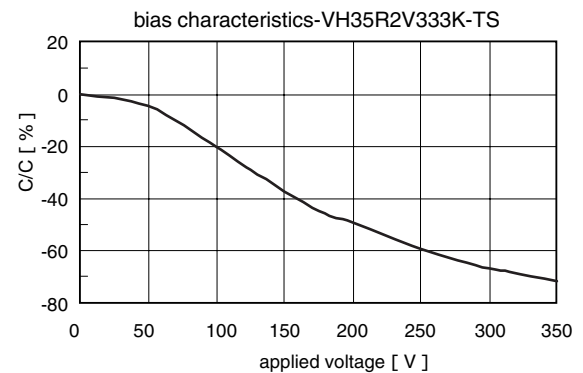
■ Capacitance Map

Type rated voltage capacitance	VH35 (3.3 × 1.6)		VH38 (3.4 × 2.6)		VH47 (4.5 × 3.2)		VH69 (5.7 × 5.0)	
	350V _{DC} (2V)	630V _{DC} (2J)	350V _{DC} (2V)	630V _{DC} (2J)	350V _{DC} (2V)	630V _{DC} (2J)	350V _{DC} (2V)	630V _{DC} (2J)
472 4.7nF		1.25						
682 6.8nF		1.25						
103 10nF	1.00	1.80		1.25				
153 15nF	1.00			1.70				
223 22nF	1.70			2.20				
273 27nF	1.70							
333 33nF	1.70		1.70	2.50		1.70		
473 47nF	1.80		2.20			1.70		
683 68nF					2.20	2.20		1.70
104 0.1 μF					2.50	2.80		1.70
154 0.15 μF								2.20
224 0.22 μF								2.80

■ Capacitance-Temperature characteristics (Reference)

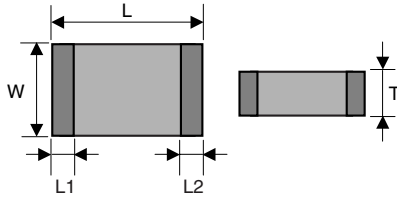


■ DC bias characteristics (Reference)



MEDIUM/HIGH VOLTAGE MULTILAYER CERAMIC CAPACITORS [VH Series]

■ Dimensions



Unit : mm

Type	L	W	T	L1, L2
VH35	3.3±0.3	1.6±0.2	1.80 max.	0.2~
VH38	3.4±0.3	2.6±0.4	2.50 max.	0.3~
VH47	4.5±0.4	3.2±0.3	2.80 max.	0.4~
VH69	5.7±0.4	5.0±0.4	2.80 max.	0.4~

■ List of products in VH Series

Rated Voltage : 630Vdc

Part Number	Capacitance(pF)	Product height T (mm)
VH35R2J472K-TS	4,700	1.25+0/-0.30
VH35R2J682K-TS	6,800	1.25+0/-0.30
VH35R2J103K-TS	10,000	1.80+0/-0.40
VH38R2J103K-TS	10,000	1.25+0/-0.30
VH38R2J153K-TS	15,000	1.70+0/-0.40
VH38R2J223K-TS	22,000	2.20+0/-0.50
VH38R2J333K-TS	33,000	2.50+0/-0.60
VH47R2J333K-TS	33,000	1.70+0/-0.40
VH47R2J473K-TS	47,000	1.70+0/-0.40
VH47R2J683K-TS	68,000	2.20+0/-0.50
VH47R2J104K-TS	100,000	2.80+0/-0.60
VH69R2J683K-TS	68,000	1.70+0/-0.40
VH69R2J104K-TS	100,000	1.70+0/-0.40
VH69R2J154K-TS	150,000	2.20+0/-0.50
VH69R2J224K-TS	220,000	2.80+0/-0.60

Rated Voltage : 350Vdc

Part Number	Capacitance(pF)	Product height T (mm)
VH35R2V103K-TS	10,000	1.00+0/-0.25
VH35R2V153K-TS	15,000	1.00+0/-0.25
VH35R2V223K-TS	22,000	1.70+0/-0.40
VH35R2V273K-TS	27,000	1.70+0/-0.40
VH35R2V333K-TS	33,000	1.70+0/-0.40
VH35R2V473K-TS	47,000	1.80+0/-0.40
VH38R2V333K-TS	33,000	1.70+0/-0.40
VH38R2V473K-TS	47,000	2.20+0/-0.50
VH47R2V683K-TS	68,000	2.20+0/-0.50
VH47R2V104K-TS	100,000	2.50+0/-0.60

* Highly reliable Ni-barrier terminations show excellent flexion and temperature cycling.
 * VH38, VH47, VH69 types are available for reflow soldering only.