

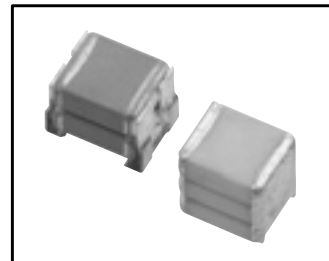
HIGH CAPACITANCE · HIGH VOLTAGE STACKED TYPES [KS · VS Series]

■ Features

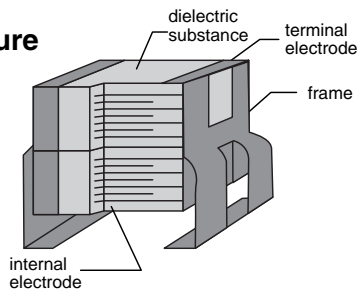
- The mounting surface is small.
- Compact and large capacity.
- Excellent temperature cycling.
- Non-polar.
- RoHS Compliant.

■ Applications

- Smoothing circuit and snubber circuit of compact switching power supply.



■ Structure



■ Range of Use

Temperature characteristics	EIA symbol	Capacitance change	Temperature range	Capacitance tolerance
R	X7R	±15%	-55~+125	M (±20%)
E	Y5U (Z5U)	-20~+55%	-25~+85	

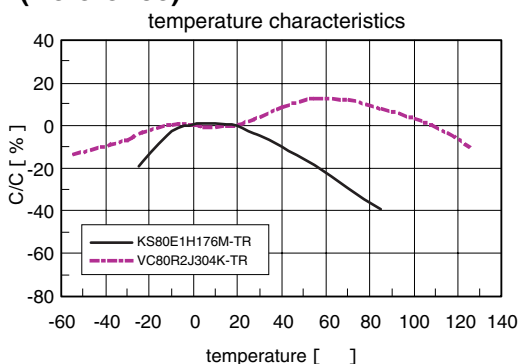
■ Capacitance Map (X7R Characteristics)

Type	VS70 (4.5×3.2)						VS80 (5.7×5.0)					
	16Vdc (1C)	25Vdc (1E)	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)	630Vdc (2J)	16Vdc (1C)	25Vdc (1E)	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)	630Vdc (2J)
104 0.1 μF						5.50						
144 0.14 μF						5.50						
204 0.2 μF					5.50							
304 0.3 μF					5.50							6.00

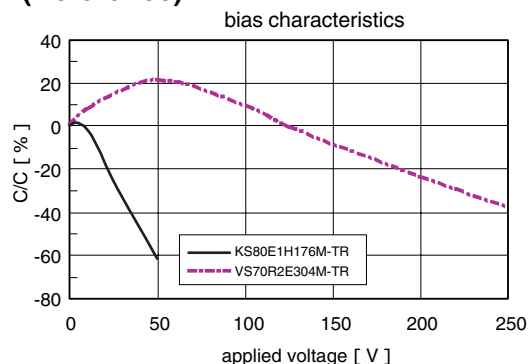
■ Capacitance Map (Y5U Characteristics)

Type	KS,VS70 (4.5×3.2)						KS,VS70 (5.7×5.0)					
	16Vdc (1C)	25Vdc (1E)	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)	630Vdc (2J)	16Vdc (1C)	25Vdc (1E)	50Vdc (1H)	100Vdc (2A)	250Vdc (2E)	630Vdc (2J)
205 2 μF											6.00	
245 2.4 μF				5.50								
445 4.4 μF				6.00								
685 6.8 μF										6.00		
116 11 μF		5.50										
176 17 μF									6.00			
206 20 μF		6.00							6.00			
246 24 μF								6.00				
446 44 μF								6.00				
476 47 μF								6.00				
107 100 μF							6.00					

■ Capacitance-Temperature characteristics (Reference)

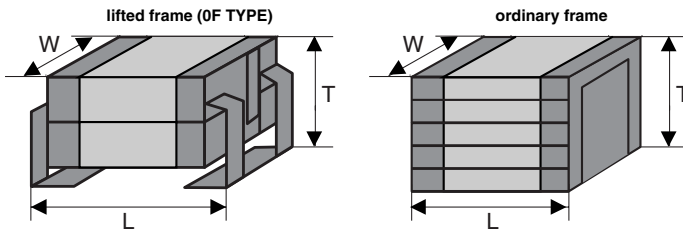


■ DC bias characteristics (Reference)



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■ Dimensions



Unit : mm

Type	Frame Type	L	W	T
KS70	Ordinary frame	5.1±0.5	3.2±0.4	5.5 max.
VS70	OF TYPE	5.8±0.5	3.2±0.4	6.0 max.
KS80	Ordinary frame	6.2±0.5	5.0±0.4	6.0 max.
VS80	OF TYPE	7.0±0.5	5.0±0.4	6.0 max.

■ List of products in KS,VS Series

X7R Characteristics

Rated Voltage : 630Vdc

Part Number	Capacitance(μF)	Product height T (mm)
VS70R2J104M-TR	0.1	5.50 max.
VS70R2J144M-TR	0.14	5.50 max.
VS80R2J304M-TR	0.3	6.00 max.

Rated Voltage : 250Vdc

Part Number	Capacitance(μF)	Product height T (mm)
VS70R2E204M-TR	0.2	5.50 max.
VS70R2E304M-TR	0.3	5.50 max.

Y5U Characteristics

Rated Voltage : 250Vdc

Part Number	Capacitance(μF)	Product height T (mm)
VS80E2E205M-TR	2	6.00 max.

Rated Voltage : 100Vdc

Part Number	Capacitance(μF)	Product height T (mm)
VS70E2A245M-TR	2.4	5.50 max.
VS70E2A445M-TS0F	4.4	6.00 max.
VS80E2A685M-TS0F	6.8	6.00 max.

Rated Voltage : 50Vdc

Part Number	Capacitance(μF)	Product height T (mm)
KS80E1H176M-TR	17	6.00 max.
KS80E1H206M-TS0F	20	6.00 max.

Rated Voltage : 25Vdc

Part Number	Capacitance(μF)	Product height T (mm)
KS70E1E116M-TR	11	5.50 max.
KS70E1E206M-TS0F	20	6.00 max.
KS80E1E246M-TR	24	6.00 max.
KS80E1E446M-TS0F	44	6.00 max.
KS80E1E476M-TS0F	47	6.00 max.

Rated Voltage : 16Vdc

Part Number	Capacitance(μF)	Product height T (mm)
KS80E1C107M-TS0F	100	6.00 max.

- * All types are available for reflow soldering only.
- * Ordinary frame is available with R-termination only.
- * Custom specifications are available. Please contact us for the details.