

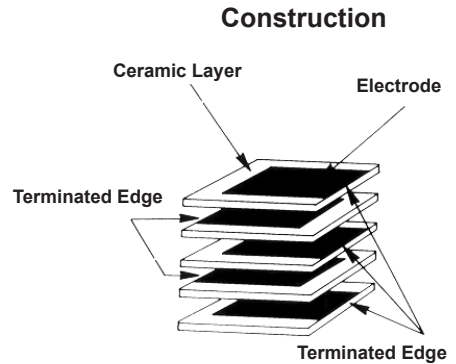


Surface Mount Transient Voltage Suppressors

VC Series Specifications

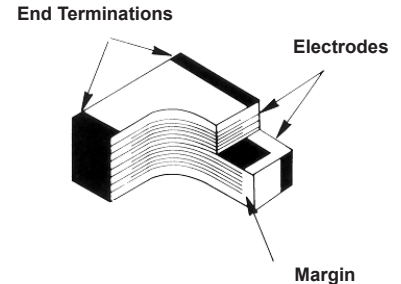
Part Number Determination

VC120605D150D						
V	C	1206	05	D	150	R
PRODUCT DESIGNATOR	CASE STYLE	CASE SIZE	WORKING VOLTAGE	ENERGY	CLAMPING VOLTAGE	PACKAGING
V=Varistor	C=Chip	0402 0603 0805 1206 1210	03=3.3V	A=0.1J	100=10V	D=1,000 T/R R=4,000 T/R T=10,000 T/R
			05=5.6V	C=0.3J	150=15.5V	
			09=9V	D=0.4J	200=20V	
			12=12V	F=0.7J	250=25V	
			14=14V	G=0.9J	300=30V	
			18=18V	H=1.2J	390=39V	
			26=26V	J=1.5J	400=40V	
			30=30V	P=3.0J	500=50V	
			48=48V	V=0.02J	560=56V	
			60=60V	X=0.05J	580=58V	
					620=62V	
					650=65V	
					101=100V	
		121=120V				



Package Dimensions (mm/in)

Series	VC0603	VC0805	VC1206
Length	1.6±0.15mm 0.063"±0.006"	2.01±0.2mm 0.079"±0.008"	3.20±0.2mm 0.126"±0.008"
Width	0.50±0.15mm 0.032"±0.006"	1.25±0.2mm 0.049"±0.008"	1.60±0.2mm 0.063"±0.008"
Thickness	0.9mm Max. 0.035"	1.02mm Max. 0.040"	1.02mm Max. 0.040"
Termination Band Width	0.35±0.15mm 0.014"±0.006"		
Termination Separation	0.7mm Min 0.028"		



Electrical Characteristics

Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance		Inductance	
Symbol	VWM	VB	VC	Ipeak	Etrans	C		L	
Units	Volts (max.)	Volts	Volts (max.)	Amp (max.)	Joules (max.)	pF (typ.)		nH (typ.)	
Test Condition	<50uA	1mA DC	8/20uSt	8/20us	10/1000uS	0.5Vrms@1kHz	0.5Vrms@1MHz	di/dt=100mA/nS	
VC060314A300DP	14.0	16.5-20.3	30	30	0.1	500	424		
VC060318A400DP	18.0	22.9-28.0	40						
VC060326A580DP	26.0	31.0-38.0	58						
VC080503C100DP	3.3	3.7-5.6	10	120	0.3	5500	4000	1.5	
VC080505A150DP	5.6	7.6-9.3	15.5	40	0.1	1250	860	<1.5	
VC080505C150DP		7.1-8.7		120	0.3	3500	2400	1.5	
VC080512A250DP	12	14.0-18.3	25	40	0.1	525	400	<1.5	
VC080514C300DP	14	16.5-20.3	30			375	280	<1.5	
VC080514A300DP		15.9-19.4				120	0.3	1100	820
VC080518A400DP	18	22.9-28.0	40	30	0.1	350	275	<1.5	
VC080518C400DP		22.5-27.5		100	0.3	650	500	1.5	
VC080526C580DP	26	30.5-37.3	58	30	0.1	250	190	1.5	
VC080530A650DP	30	37.0-46.0	65			100	80		<1.5
VC120605D150DP	5.6	7.1-8.7	15.5			150	0.4		3000
VC120614A300DP	14	16.5-20.3	30	40	0.1	600	50	<1.7	
VC120614D300DP		15.9-19.4		150	0.4	1200	900	1.7	
VC120618D400DP		22.5-27.5				800	635		
VC120626D580DP	26	30.5-37.3	58	120	0.4	550	450	1.7	
VC120630D650DP	30	36.0-45.0	65			500	400		
VC120648D101DP	48	56.0-68.0	100			225	185		

Engineering Design Kits Available
See Garrett Kit Catalog



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