

# ShenZhen HuaXingAn Electronics CO.,LTD

## SPECIFICATTON FOR APPROVAL

CUSTOMER NAME: Customer's company

PRODUCT NAME: Varistor MOV

HuaXingAn P/N : 34Sxx1K-5

Date : 2022-12-08

### Customer

Manufacturing Department: \_\_\_\_\_

Quality Assurance Department: \_\_\_\_\_

Engineering Department: \_\_\_\_\_

company seal:

### Supplier

Manufacturing Department: Lui Zhi Wei

Quality Assurance Department: Wei Yu

Engineering Department: Chen Tan wang

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# Varistors (MOV)

## Features

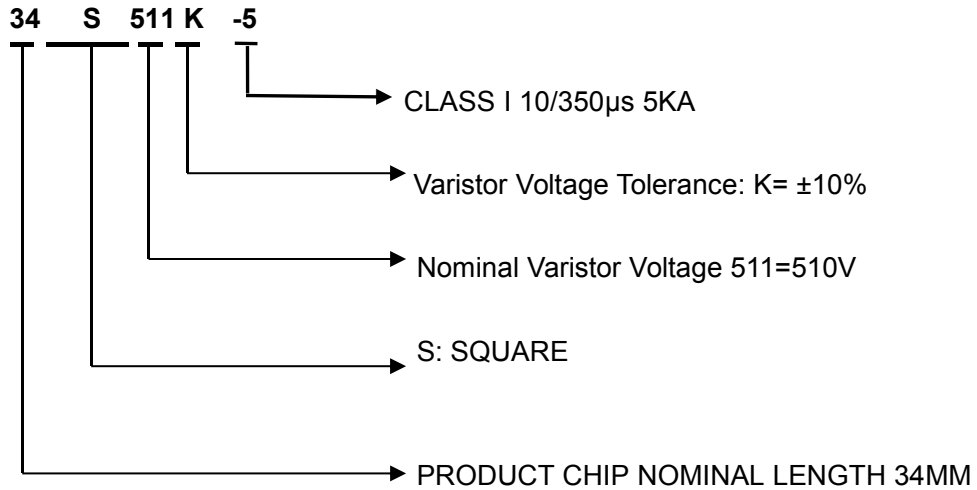
- Wide operating voltage (V1mA) 240V-810V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no follow-on current
- Meets MSL level 1, per J-STD-020
- Operating Temperature: -40°C ~ +85°C
- Storage Temperature: -40°C ~ +105°C
- UL 1449 4th for SPD Type 5 application
- Safety certification:



## Applications

- SPD , Surge Protection Device, Surge Protective Devices

## Description of Part Number



## Delivery Time

Standard MOV	Delivery Time	Standard MOV	Delivery Time
34S241K-5 ~ 34S821K-5	35days		



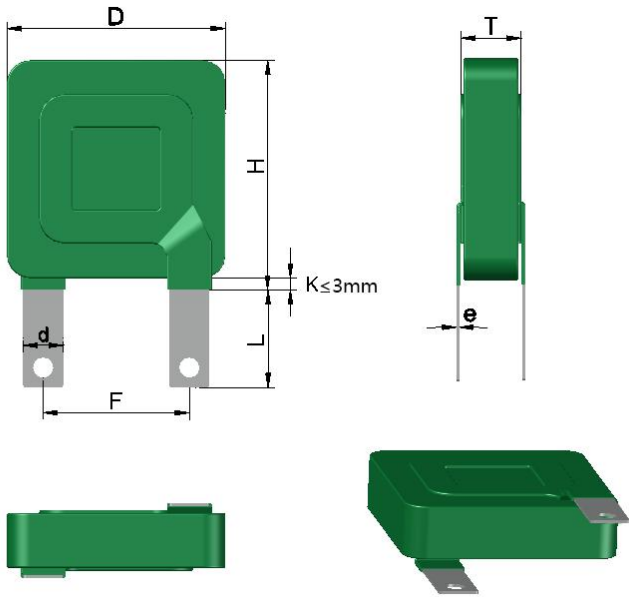
Electrical Characteristics

Part Number Marking	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Impulse Current(10 /350µs)	Nominal discharge current (8/20µs)	Maximum discharge Current(8/20µs)	Safety Certification
	V <sub>AC</sub> .rms	V <sub>DC</sub>		V <sub>1mA</sub> (V)	I <sub>P</sub> (A)	V <sub>C</sub> (V)	limp	IEC 61643-11 I <sub>n</sub>	
						1time	15times	1time	UL /CUL
34S241K-5	150V	200V	240v(216~264)	300	395V	5KA	20KA	40KA	√
34S271K-5	175V	225V	270V(243~297)	300	455V	5KA	20KA	40KA	√
34S301K-5	190V	250V	300V(270~330)	300	500V	5KA	20KA	40KA	-
34S331K-5	210V	275V	330V(297~363)	300	550V	5KA	20KA	40KA	√
34S361K-5	230V	300V	360V(324~396)	300	595V	5KA	20KA	40KA	√
34S391K-5	250V	320V	390V(351~429)	300	650V	5KA	20KA	40KA	√
34S431K-5	275V	350V	430V(387~473)	300	710V	5KA	20KA	40KA	√
34S471K-5	300V	385V	470V(423~517)	300	775V	5KA	20KA	40KA	√
34S511K-5	320V	415V	510V(459~561)	300	845V	5KA	20KA	40KA	√
34S561K-5	350V	460V	560V(504~616)	300	925V	5KA	20KA	40KA	√
34S621K-5	385V	505V	620V(558~682)	300	1025V	5KA	20KA	40KA	√
34S681K-5	420V	560V	680V(612~748)	300	1120V	5KA	20KA	40KA	√
34S711K-5	440V	585V	710V(644~786)	300	1180V	5KA	20KA	40KA	√
34S751K-5	460V	615V	750V(675~825)	300	1240V	5KA	20KA	40KA	√
34S781K-5	485V	640V	780V(702~858)	300	1290V	5KA	20KA	40KA	√
34S821K-5	510V	670V	820V(738~902)	300	1355V	5KA	20KA	40KA	√
Maximum DC Leakage Current				20µA		At 80% of Varistor Voltage			
Nonlinear exponent(α)				≥ 21		$\alpha = \frac{\log \frac{I_1}{I_2}}{\log \frac{V_1}{V_2}}$			
① Nominal discharge current 8/20us (I <sub>n</sub> )				Test Current Waveform 8/20µs*15 (I <sub>n</sub> .15times ) Divided into three groups of 5 times each, with 1 minute interval between groups and 30 minutes interval between groups					
② Maximum discharge current (I <sub>max</sub> )				Test Current Waveform 8/20µs*1time					
③ Impulse current(limp)				Test Current Waveform 10/350µs at interval of 5 minutes					
<p><b>Notes: The current impulse test need to use different Varistor samples for test ① I<sub>n</sub>, ② I<sub>max</sub> and ③ limp item, and can also be tested ① I<sub>n</sub>+② I<sub>max</sub> or ① I<sub>n</sub>+③ limp item, but cannot be tested all the items(① I<sub>n</sub>, ② I<sub>max</sub> and ③ limp) with one same Varistor samples.</b></p>									
Temperature Coefficient Of Varistor Voltage				-0.05 % / °C max.		$\frac{V_c 85^\circ C - V_c 15^\circ C}{V_{cat} 25^\circ C} \times \frac{1}{60} \times 100 (\% ^\circ C)$			

Dimension(mm)



1.1	APPEARANCE	Without Any Crack, Marking Should be Clear	
1.2	DIMENSIONS (mm)		
D(Max)	35mm	H(Max)	35.6mm
e	0.45mm(±0.05mm)	d	7.0(±0.1mm)
F	25.4(±1.0mm)	L(Min)	16.5mm



Dimensions	
Part number	T (max)
34S241K-5	5.9mm
34S271K-5	6.1mm
34S301K-5	6.3mm
34S331K-5	6.5mm
34S361K-5	6.7mm
34S391K-5	6.9mm
34S431K-5	7.1mm
34S471K-5	7.3mm
34S511K-5	7.5mm
34S561K-5	7.7mm
34S621K-5	7.9mm
34S681K-5	8.1mm
34S711K-5	8.3mm
34S751K-5	8.5mm
34S781K-5	8.7mm
34S821K-5	8.9mm
Polar surface material: Silve	
Epoxy Colour :Green	

Packing Information



Quantity	34S241K-5 ~ 34S821K-5		32PCS/box	
Packing Dimension		LP	255mm(max)	
		HP	60mm(max)	
		WP	195mm(max)	

Material List

Drawing				
	Material chart	Item	Composition	Manufacturer
RoHS	Coating	Epoxy Resin	Made in China, and in line with the UL 94-V0 testing, meet the environmental requirements	
	Electrode Terminal	Copper sheet electrode	Made in China, meet the environmental requirements	
	Electrode	Silver	Made in China, meet the environmental requirements	
	Black parcel body	Zinc Oxide	Manufacturer of zinc oxide varistor	
	Solder	Sn:96.5%CU 0.5%Ag3.0%	Made in China, meet the environmental requirements	