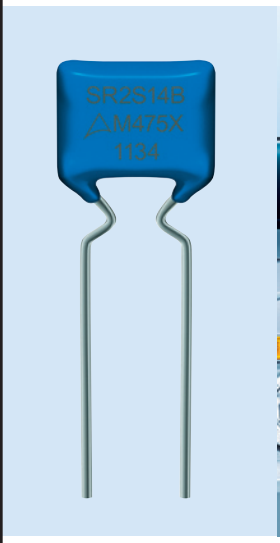
EPCOS

Sample Kit 2011

Leaded Transient Voltage/ RFI Suppressors (SHCVs)

for Combined Overvoltage and RFI Suppression in Electric Motors



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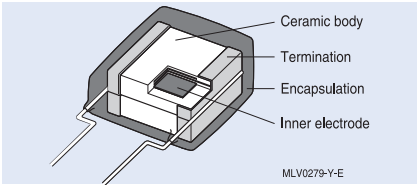
What are leaded transient voltage/ RFI suppressors (SHCVs)?

- Leaded transient voltage / RFI suppressors (also called SHCV varistors) are leaded devices in a single component for combined overvoltage protection and RFI noise suppression on DC lines of small electric motors in industrial and automotive applications
- SHVC varistors are a combination of high capacitance multilayer capacitor with X7R characteristic for RF filtering and a multilayer varistor for transient protection



Construction of leaded transient voltage / RFI suppressors (SHCVs)

Benefits for customer applications

- Combined protection against overvoltage transients and RFI suppression in a bidirectional single component
- Reliable protection against automotive transients such as load dump and jump start
- Maximum surge current capability (8/20 µs) up to 1200 A
- High capacitance of up to 4.7 µF
- Automotive series approval based on AEC-Q200 Rev-C
- No temperature derating up to 125 °C

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Important information: Some parts o… …oducts for certain areas of application. These statements are based on our knowledge … …s. We expressly point out that these statements cannot be regarded as binding statements a… …tomer application. It is incumbent on the customer to check and decide whether a product is suita… …ublication is only a brief product survey which may be changed from time to time. Our products are describe… …*important notes* (www.epcos.com/ImportantNotes) and the product-specific *Cautions and warnings* must be observed. … …mation is available through our sales offices.

Product Range

Electrical parameters of leaded transient voltage / RFI suppressors in the sample kit

Ordering code	EPCOS type	$V_{DC.\,max}$ [V]	$I_{surge,\,max}$ @ 8/20 µs [A]	W_{LD} 10 pulses [J]	V_{jump} @ 5 min [V]	V_V @ 1 mA [V]	$V_{clamp,\,max}$ [V]	I_{clamp} @ 8/20 µs [A]	C_{nom} [nF]
Automotive series									
B72527G3200K000	SR6K20M105X	26	200	1.5	–	33 ±10%	54	1	1000 ±20%
B72527E3350K000	SR6K35M474X	45	100	1.5	–	56 ±10%	90	1	470 ±20%
B72587E3200K000	SR1K20M474X	26	800	6	26	33±10%	58	10	470 ±20%
B72587G3200K000	SR1K20M105X	26	800	6	26	33 ±10%	58	5	1000 ±20%
B72587H3200K000	SR1K20M155X	26	800	6	26	33 ±10%	58	5	1500 ±20%
B72587J3200K000	SR1K20M225X	26	800	6	26	33 ±10%	58	5	2200 ±20%
B72547L3140S200	SR2S14BM475X	16	1200	12	24.5	22 +23/-0%	40	10	4700 ±20%
B72547E3200K000	SR2K20M474X	26	1200	12	26	33 ±10%	58	10	470 ±20%
B72547G3200K000	SR2K20M105X	26	1200	12	26	33 ±10%	58	10	1000 ±20%

SR6 K20M105X	SR6 K35M474X	SR1 K20M474X	SR1 K20M105X	SR1 K20M155X	SR1 K20M225X	SR2 S14BM475X	SR2 K20M474X	SR2 K20M105X

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