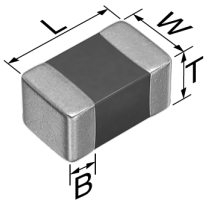
Chip Varistors / Ceramic Transient Voltage Suppressors

AVRSP16C270KT431N

RoHS | REACH | Halogen Free | Lead Free

Applications	Automotive Grade
Applications Detail	Motor Motor
Features	Low Clamp Low Clamp ≥15kV ESD ESD ≥15kV ≥25kV ESD ESD ≥25kV AEC-Q200 AEC-Q200 125°C 125°C Glue Conductive Epoxy Application
Series	AVR
Status	Production
Brand	TDK



Size	
Length(L)	1.60mm ±0.10mm
Width(W)	0.80mm ±0.10mm
Thickness | Height	0.80mm ±0.10mm
Terminal Width(B)	0.20mm Min.
Recommended Land Pattern (PA)	0.90mm Nom.
Recommended Land Pattern (PB)	0.90mm Nom.
Recommended Land Pattern (PC)	1.20mm Nom.

Electrical Characteristics	
Varistor Voltage (Nom.) @ 1mA	27V
Maximum Operating Voltage [DC]	19V
Capacitance (Typ.)	430pF
Maximum Clamping Voltage [8/20μs]	42V
Maximum Surge Current [8/20μs]	48A
ESD Clamping Voltage [2kV]	20V<Vave≤40V
ESD Clamping Voltage [8kV]	40V<Vave≤60V
Energy Absorption	100mJ

Other	
Operating Temperature Range	-55 to 150°C
Soldering Method	Conductive Epoxy
AEC-Q200 (Environment)	YES
AEC-Q200 Electrical Transient Conduction (Pulse1)	Pass on level IV (12V system) of ISO-7637-2:2011
AEC-Q200 Electrical Transient Conduction (Pulse2a)	Pass on level IV (12V system) of ISO-7637-2:2011

! Images are for reference only and show exemplary products.
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AEC-Q200 Electrical Transient Conduction (Pulse2b)	Pass on level IV (12V system) of ISO-7637-2:2011
AEC-Q200 Electrical Transient Conduction (Pulse3a)	Pass on level IV (12V system) of ISO-7637-2:2011
AEC-Q200 Electrical Transient Conduction (Pulse3b)	Pass on level IV (12V system) of ISO-7637-2:2011
AEC-Q200 ESD	6[≥25000V(AD)]
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	4000pcs
Weight per pc	0.0053g

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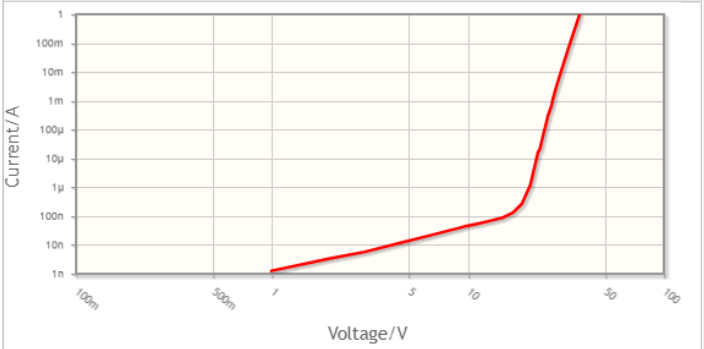
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Current vs. Voltage



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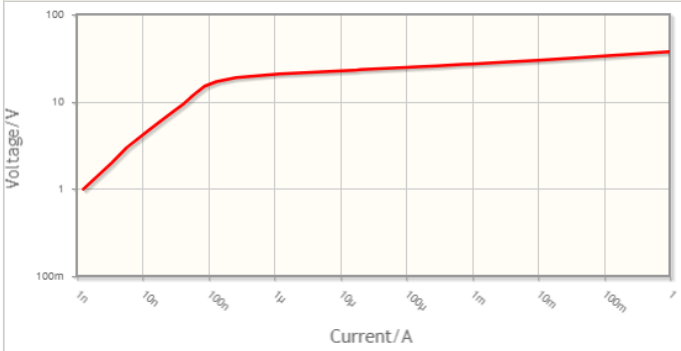
Voltage vs. Current



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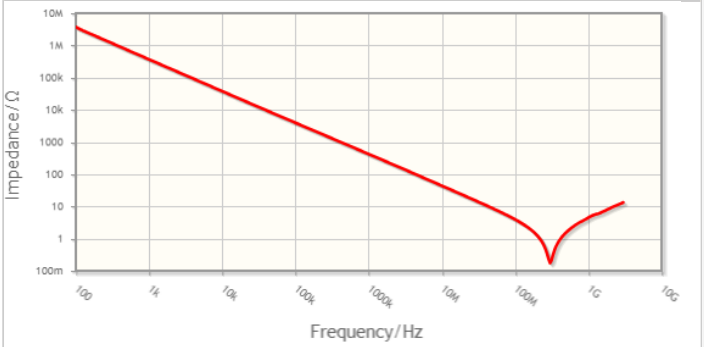
Impedance



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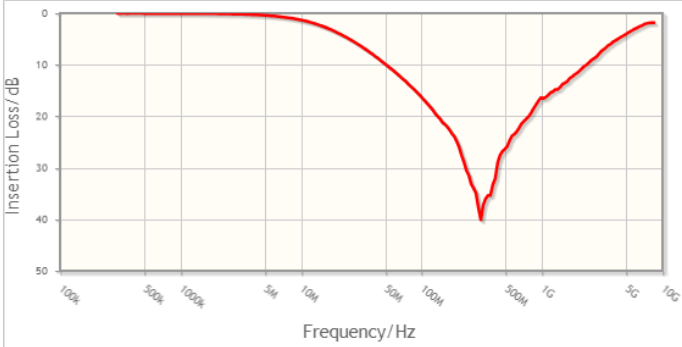
Insertion Loss



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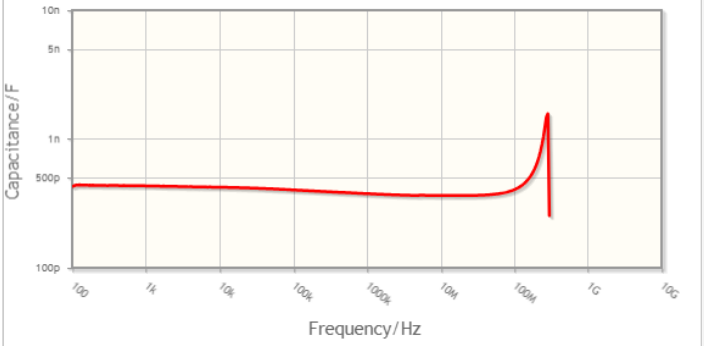
Capacitance



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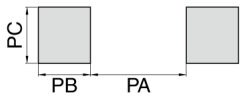
Associated Images

Land Pattern (Terminal Connection)



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