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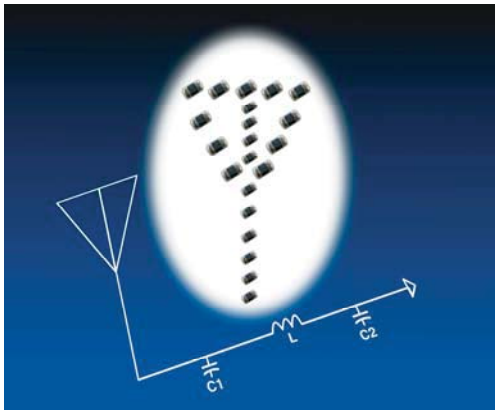
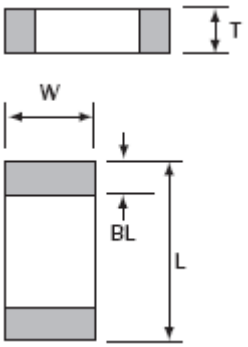
Automotive AntennaGuard



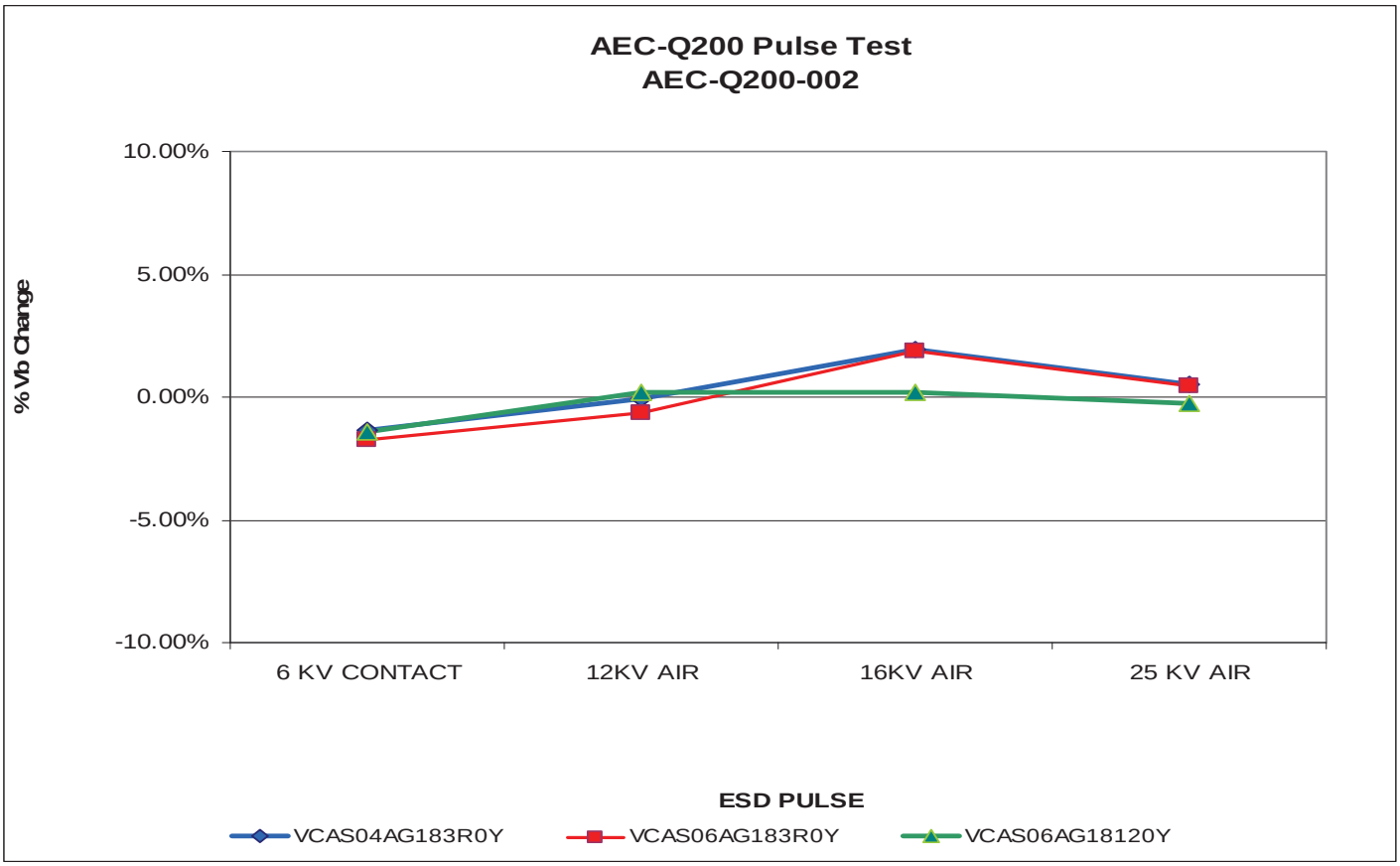


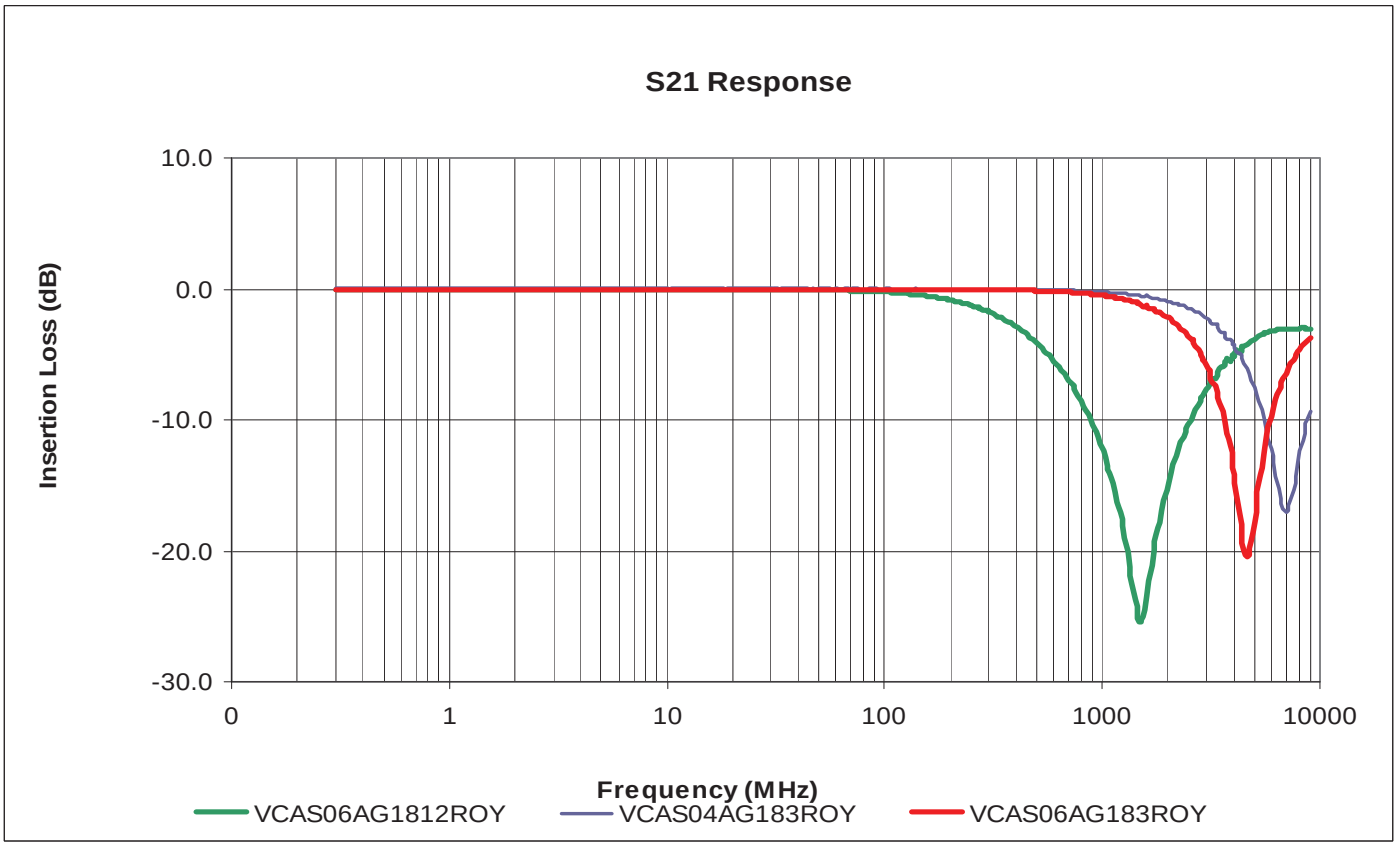
Size (EIA)	0402	0603
L	1.00 ±0.10 (0.040 ±0.004)	1.60±.15 (0.063±0.006)
W	0.50 ±0.10 (0.020 ±0.004)	0.80±0.15 (0.032±0.006)
T	0.60 Max. (0.024 Max.)	0.90 Max (0.035 Max.)
BL	0.25 ±0.15 (0.010 ±0.006)	0.35±0.15 (0.014±0.006)

VC	AS	06	AG	18	3R0	Y	A	T	1	A
Varistor Chip	Series AS= Automotive	Case 04=0402 06 = 0603	Type	Working Voltage 18=18VDC	Capacitance 3R0=3pF 120=12pF	Non-Std Cap Tol Y=Max	Not Applicable	Termination T=Ni/Sn plated 1=Pd/Ag/Pt	Reel 1=7" 3=13" W=7" (0402 only)	Reel A=4k or 10k

AVX Part Number	Working Voltage (DC)	Working Voltage (AC)	Maximum Leakage Current	Typical Capacitance	Case Size	Elements	Jump Start
VCAS04AG183R0Y	≤ 18	≤ 14	0.1	3	0402	1	27.5
VCAS06AG183R0Y	≤ 18	≤ 14	0.1	3	0603	1	27.5
VCAS06AG18120Y	≤ 18	≤ 14	0.1	12	0603	1	27.5

V_W(DC) DC Working Voltage [V]
Vw(AC) AC Working Voltage [V]
I_L Maximum leakage current at the working voltage [µA]
Cap Typical capacitance [pF] @ frequency specified and $0.5V_{RMS}$


AEC-Q200 Pulse Test
AEC-Q200-002
10.00%
5.00%
0.00%
-5.00%
-10.00%
% Vb Change
6 KV CONTACT
12KV AIR
16KV AIR
25 KV AIR
ESD PULSE
VCAS04AG183R0Y
VCAS06AG183R0Y
VCAS06AG18120Y


S21 Response
Insertion Loss (dB)
10.0
0.0
-10.0
-20.0
-30.0
0
1
10
100
1000
10000
Frequency (MHz)
VCAS06AG1812ROY
VCAS04AG183ROY
VCAS06AG183ROY

No.	Item	Requirement	Test Method
1	Operating Temp.	-55°C to +125° C	
2	Appearance/Dimensions	No visible damage Dimensions: see par 6	Visual examination at 10% magnification Dimensions verification by class2 caliper
3	Solderability	The dipped surface shall be at least 95% covered with a new smooth solder coating.	Soak in eutectic solder bath of temperature at 230+/-5°C for 5sec.
4	Solder heat resistance	No mechanical damage. Capacitance: 3 pF Leakage: <100nA	a. Read capacitance and leakage. b. Soak in eutectic solder bath of temperature at 260+/-5°C. for 10+/-1sec. c. Natural cool down to +25°C d. Read capacitance and leakage after 24+/-2 hours.
5	Humidity Life	Capacitance: 3 pF Leakage: <100nA	a. Read capacitance and leakage. b. Leave device in chamber of +85+/-3°C, 85+/5% relative humidity for 1,000± 5hours. c. Read capacitance and leakage after 3-4 hours conditioning at 25+/-5°C
6	Life Test	Capacitance: 3 pF Leakage: <100nA	a. Read capacitance and leakage. b. Apply 100% of working voltage at test temperature of 125+/-4°C for 1,000+48/-0hours. c. Read capacitance and leakage after 24+/-2 hours conditioning at 25+/- 5°C