



# TRANSIENT/SURGE ABSORBER TRANSIENT VOLTAGE SURGE SUPPRESSORS

## Performance Characteristics (Environmental)

Characteristics	Test Methods	Specifications		
<b>High Temperature Storage / Dry Heat</b>	The specimen shall be subjected to $125 \pm 2$ °C for 1,000 hours in a thermostatic bath without load and then stored at room temperature and humidity for 1 to 2 hours. Thereafter, the change of Vc shall be measured.	$\Delta V_{CmA} / V_{CmA} \leq \pm 5\%$		
<b>Damp Heat / Humidity (Steady State)</b>	The specimen shall be subjected to $40 \pm 2$ °C, 90 to 95%RH for 1000 hours without load and then stored at room temperature and humidity for one to two hours. Thereafter, the change of Vc shall be measured.			
<b>Temperature Cycle</b>	The temperature cycle shown below shall be repeated five times and then stored at room temperature and humidity for one to two hours. The change of Vc and mechanical damage shall be examined.			
	<b>Step</b>		<b>Temperature (°C)</b>	<b>Period (minutes)</b>
	<b>1</b>		$-40 \pm 3$	$30 \pm 3$
	<b>2</b>		Room temperature	$15 \pm 3$
	<b>3</b>	$125 \pm 2$	$30 \pm 3$	
<b>4</b>	Room temperature	$15 \pm 3$		
<b>High Temperature Load / Dry Heat Load</b>	After being continuously applied the Maximum Allowable Voltage at $85 \pm 2$ °C for 1000 hours. The specimen shall be stored at room temperature and humidity for one to two hours. Thereafter, the change of Vc shall be measured.	$\Delta V_{CmA} / V_{CmA} \leq \pm 10\%$		
<b>Damp Heat Load / Humidity Load</b>	The specimen shall be subjected to $40 \pm 2$ °C, 90 to 95 %RH and the Maximum Allowable Voltage for 1000 hours and then stored at room temperature and humidity for one to two hours. Thereafter, the change of Vc shall be measured.	$\Delta V_{CmA} / V_{CmA} \leq \pm 10\%$		
<b>Low Temperature Storage / Cold</b>	The specimen shall be subjected to $-40 \pm 2$ °C without load for 1000 hours and then stored at room temperature for one to two hours. Thereafter, the Change of Vc shall be measured.	$\Delta V_{CmA} / V_{CmA} \leq \pm 5\%$		