Power Inductors — Performance Specifications

General					
ltem		Specification			
1	Shelf Storage Conditions	Temperature : 25 ± 3°C Humidity : <80%			
2	Storage Temperature Range	-40°C to +85°C			
3	Operating Temperautre Range	-20°C to +80°C			

Mechanical Performance						
ltem		Specification	Test Method			
1	Solderability Test	90% covered with solder	MIL-STD-202F Method 208H Inductor shall be dipped in a melted solder bath at 230 \pm 5°C for 5 secs.			
2	Heat endurance of reflow soldering		Go through 3 times			
3	Vibration	No case deformation or change in appearance $\Delta L/L \le 10\%$ $\Delta L/L \le 30\%$ (PS1608)	Applied Frequency: 10~55Hz Amplitude: 1.5mm Time: 2 hours In each perpendicular direction			
4	Shock resistance		Conduct drop testing once for each of three orientations			

Climatic Tests						
ltem		Specification	Test Method			
1	High Temperature Storage test	No case deformation or change in appearance ΔL/L ≤ 10% ΔL/L ≤ 30% (PS1608)	Temperature : 85 ± 2°C Time : 48 ± 2hrs Measured after 1hr at room temperature			
2	Low Temperature Storage Test		Temperature :-25 ± 2°C Time : 48 ± 2hrs Measured after 1hr at room temperature			
3	Humidity Test		Temperature : 85 ± 2°C Relative Humidity : 90 ~ 95% Time : 96 ± 2hrs Load : Rated IDC Measured after 1hr at room temperature			
4	Thermal Shock		Step1: -25°C for 30mins Step2: 25°C for 10mins Step3: 85°C for 30 mins Complete 5 cycles Measured after 1hr at room temperature			