Performance Specifications:

Electrical Performance			
Item	Requirement	Test Method	
Inductance	Refer to standard Electrical Specifications	HP4291 or HP4284	
Q		HP4291 or HP4284	
SRF		HP4291	
DC Resistance DCR		Agilent 34401A	
Rated Current IDC		Applied the current to coils. The inductance change should be less than 10% to initial value	

Mechanical Performance				
Item	Requirement	Test Method		
Solderability	The electrodes shall be at least 90% covered with new solder coating	Lead-free inductor: after fluxing (alpha 100 or equivalent), inductor shall be dipped in a melted solder bath at $245 \pm 5^{\circ}$ C, 5 ± 0.5 seconds		
Resistance to Soldering Heat	Appearance: No damage	Pre-heating: 150°C, 1 min. Solder Temperature: 260±5°C Immersion Time: 10±1 seconds		
Vibration	Appearance: No damage L change: within ±10% Q change: within ±30% DCR: within specification	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1 min. Amplitude: 1.5mm Time: 2 hours for each axis (X, Y & Z), total 6 hours		

Climatic Tests				
Item	Requirement	Test Method		
Temperature Cycle	Appearance: No damage L change: within ±10% Q change: within ±30% DCR within specification	One cycle:		
		Step Temperature (°C) Time (min) 1 -25 ± 3 30 2 25 ± 2 3 3 85 ± 3 30		
		$4 25 \pm 2 3$		
		Total: 100 cycles Measured after exposure in the room condition for 24 hours		
Damp Heat with Load		Temperature: 40 ± 2°C		
		Time: 1000 hours		
		Measured after exposure in the room condition for 24 hours		
High Temperature Storage		Temperature: 85 ± 3°C		
		Relative Humidity: 20%		
		Applied Current: Rated Current		
		Time: 1000 hours		
Low Temperature Storage		Measured after exposure in the room condition for 24 hours		
		Polativo Humidity: 0%		
		Time: 1000 hours		
		Measured after exposure in the room condition for 24 hours		

Storage Temperature: 25 ± 3°C; Humidity <80%RH