RELIABILITY AND TEST CONDITIONS

Item	Performance				Test Condition
Operating Temperature	-55~+125℃				
Storage temperature and Humidity range	-55~+125℃				
Electrical Performance Test					
Inductance	Refer to standard electrical Characteristics list.			HP428A,CH11025,CH3302,CH1320, CH1320S,LCR Meter.	
DCR					CH16502,Agilent33420A Micro-OhmMeter
Saturation Current(Isat)	ΔL=20%				Saturation Current (Isat) will cause Lo to drop approximately(ΔL%)
Heat Rated Current (Irms)	Heat Rated Current (Irms)will cause the rise approximately ΔΤ(°C) without core 1.Applied the allowed DC current. 2.Temperature measured by digital surf				loss
Solder Heat Resistance	Appearance: No significant abnormality. Inductance change: Within ± 20%				Preheat: 150°C,60sec. Solder: Sn–Ag3.0−Cu0.5 Solder Temperature: 260+/-5°C Flux for lead free: rosin Dip time:10 ± 0.5sec.
Solderability Test	More than 90% of the terminal electrode should 150°C be covered with solder.				Preheat:150°C,60sec. Solder:Sn-Ag3.0-Cu0.5 Solder temperature:230+/-5°C Flux for lead free:rosin Dip time:4 ± 1sec.
Reliability Test					
High Temperature Life Test	Appearance:no damage. Inductance:within ± 20% of initial value. No disconnection or short circuit.				Temperature: 125 ± 5°C Duration: 500 ± 12hrs. Measured at room temperature after placing for 2 to 3hrs.
Low Temperature Life Test	Appearance:no damage. Inductance:within ± 20% of initial value. No disconnection or short circuit.				Temperature:-55 ± 5°C. Duration:500 ± 12hrs. Measured at room temperature after placing for 2 to 3hrs.
Thermal shock	Appearance: no damage. Inductance: within ± 20% of initial value. No disconnection or short circuit.	class Ter	mperature	Time	Condition for 1 cycle.
		1 -5	5℃±3℃	30 ± 3	Step1: $-55 \pm 3^{\circ}$ C 30 ± 3 min. Step2:Room temperature within 3 min.
		2 r	normal	within3	Step3:+125±3°C 30±3 min. Step2:Room temperature within 3 min. Number of cycles: 5.
			25℃±3℃ normal	30 ± 3 within3	Measured at room temperature after placing for 2 to 3 hrs
Humidity Resistance	Appearance: no damage. Inductance: within ± 20% of initial value. No disconnection or short circuit.				Humidity:90~95%RH Temperature:40±5°C Applied current: rated current. Duration:500±12hrs. Measured at room temperature after placing for 2to 3hrs.