SMD Power Inductor

- SDT/ SSL/ SSL_HC/ SCD/ SCMD/ SCDS/ SDS/ SDT/ SLF series

1-1.Mechanical Performances

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage	Test device shall be soldered on the substrate
		Inductance: within ±10% of initial value	Oscillation Frequency: 10 to 55 to 10Hz for 1min
		Q change: within £0% of initial value	Amplitude: 1.5mm
			Time: 2hrs for each axis (X, Y & Z), total 6hrs
1-1-2	Resistance to	Appearance: No damage	Pre-heating: 150 , 1min
	Soldering Heat		Solder Composition: Sn/Pb = 63/37
			Solder Temperature: 260 ₺
			Immersion Time: 10 ±1 sec
1-1-3	Solder ability	The electrodes shall be at least 90%	Pre-heating: 150 , 1min
		covered with new solder coating	Solder Composition: Sn/Pb = 63/37
			Solder Temperature: 230 €
			Immersion Time: 4 ± sec

1-2.Environmental Performances

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No	Item	Specification	Test Method					
1-2-1	1-2-1 Temperature Shock Appearance: No damage			10 cycles (Air to Air) 1 cycles shall consist of:				
		Inductance: within ±10% of initial value	e 30 minutes exposure to –55					
		Q change: within ±30% of initial value	30 minutes exposure to 125 15 seconds maximum transition between temperatures					
							ıres	
			Me	asured a	m condition for	24hrs		
1-2-2	Temperature Cycle		One cycle:			_		
				Step	Temperature ()	Time (min)		
				1	-25 £	30		
				2	25 L 2	3		
				3	85 £	30		
				4	25 £	3		
			Tot	al: 100cy	cles			
			Me	asured a	fter exposure in the roo	m condition for	24hrs	
1-2-3	Humidity Resistance		Ter	mperature	e: 40 2			
			Re	lative Hur	midity: 90 ~ 95%			
			Tin	Time: 1000hrs				
			Me	asured a	fter exposure in the roo	m condition for	24hrs	
1-2-4	High Temperature	Temperature: 85 €			e: 85 £8			
	Resistance		Relative Humidity: 20%					
			Applied Current: Rated Current					
			Time: 1000hrs					
			Ме	Measured after exposure in the room condition for 24hrs			24hrs	

Reliability Test - Power Inductors

No	Item	Specification	Test Method
1-2-5	Low Temperature		Temperature: -25 £
	Resistance		Relative Humidity: 0%
			Time: 1000hrs
			Measured after exposure in the room condition for 24hrs