ltem	Performance	Test Condition	
Operating Temperature	-40°C~+125°C (Including self - temperature rise)		
Storage Temperature	-40℃~+125℃ (on board)		
Electrical Performance	e Test		
Z(common mode)	Refer to standard electrical characteristics list.	Agilent-4291A+ Agilent -16197A	
RDC		Agilent-4338B	
I.R.		Agilent-4339	
Temperature Rise Test	Rated Current \geq 1A Δ T 40°C Max	 Applied the allowed DC current. Temperature measured by digital surface thermometer 	
Reliability Test	•	•	
High Temperature Exposure(Storage) AEC-Q200	Appearance : No damage Impedance : within±15% of initial value Inductance : within±10% of initial value Q : Shall not exceed the specification value RDC : within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Temperature : 125±2°C Duration : 1000hrs Min. Measured at room temperature after placing for 24±2 hrs	
Temperature Cycling AEC-Q200		Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Condition for 1 cycle Step1 : $-40\pm2^{\circ}C$ 30min Min. Step2 : $125\pm2^{\circ}C$ transition time 1min MAX. Step3 : $125\pm2^{\circ}C$ 30min Min. Step4 : Low temp. transition time 1min MAX. Number of cycles : 1000 Measured at room temperature after placing for 24±2 hrs	
Moisture Resistance		 Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) 1.Baked at50°C for 25hrs, measured at room temperature after placing for 4 hrs. 2.Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 3.Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs, keep at 25°C for 2hrs then keep at -10°C for 3hrs 4.Keep at 25°C 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs. 	
Biased Humidity (AEC-Q200)		Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020DClassification Reflow Profiles) Humidity : $85\pm3\%$ R.H, Temperature : $85^{\circ}C\pm2^{\circ}C$ Duration : 1000hrs Min with 100% rated current. Measured at room temperature after placing for 24±2hrs	
High Temperature Operational Life (AEC-Q200)		Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Temperature : 125±2°C Duration : 1000hrs Min. with 100% rated current. Measured at room temperature after placing for 24±2hrs	
External Visual	Appearance : No damage	Inspect device construction, marking and workmanship. Electrical Test not required.	



ltem	Performance	Test Condition
Reliability Test		
Physical Dimension	According to the product specification size measurement	According to the product specification size measurement
Resistance to Solvents	Appearance:No damage.	Add aqueous wash chemical - OKEM clean or equivalent.
Mechanical Shock	Appearance : No damage Impedance : within±15% of initial value Inductance : within±10% of initial value Q : Shall not exceed the specification value RDC : within ±15% of initial value and shall not exceed the specification value	TypePeak value (g's)Normal duration (D) (ms)Wave formVelocity change (Vi)ft/secSMD1006Half-sine12.3Lead1006Half-sine12.3shocks in each direction along 3 perpendicular axes
Vibration	Appearance : No damage Impedance : within±15% of initial value Inductance : within±10% of initial value Q : Shall not exceed the specification value RDC : within ±15% of initial value and shall not exceed the specification value	IPC/JEDEC J-STD-020D Classification Reflow Profiles Oscillation Frequency: 10~2K~10Hz for 20 minute Equipment : Vibration checker Total Amplitude:1.52mm±10% Testing Time : 12 hours (20 minutes, 12 cycles each of 3 orientations) ∘
Resistance to Soldering Heat		Test condition : Temperature Temperature(°C) Time(s) Temperature 260±5 10±1 25mm/s ±6 mm/s 1
Thermal shock (AEC-Q200)		Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Condition for 1 cycle Step1 : -40±2°C 15±1min Step2 : 125±2°C within 20Sec. Step3 : 125±2°C 15±1min Number of cycles : 300 Measured at room fempraturc after placing fo24±2hrs
ESD	Appearance : No damage	lp so ¹ / _t t ^r Time (ns)
Solderability	More than 95% of the terminal electrode should be covered with solder	a. Method B, 4 hrs @155°C dry heat @235°C±5°C b. Method B @ 215°C±5°C category 3.(8hours ± 15 min) c. Method D category 3. (8hours ± 15 min)@ 260°C±°C Preheat: 150°C,60sec. Solder: Sn96.5% Ag3% Cu0. 5% Temperature: 245±5°C ∘ Flux for lead free: Rosin. 9.5% ∘ Dip time: 4±1sec. Depth: completely cover the termination

JANTEX COMMON MODE FILTER CHOKE-JSCM 0706V SERIES

ltem	Performance	Test Condition		
Reliability Test				
Electrical Characterization	Refer Specification for Approval	Summary to show Min, Max, Mean and Standard deviation		
Flammability	Electrical Test not required	V-0 or V-1 are acceptable.		
Board Flex	Appearance : No damage	Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Place the 100mm X 40mm board into a fixture similar to the one shown in below Figure with the component facing down. The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum. The duration of the applied forces shall be 60 (+ 5) sec. The force is to be applied only once to the board.		
Terminal Strength (SMD)	Appearance : No damage	Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) With the component mounted on a PCB with the device to be tested, apply a 17.7 N (1.8 Kg) force to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested.		

JANTEX COMMON MODE FILTER CHOKE-JSCM 0706V SERIES

ltem	Performance	Test Condition		
Soldering and Mounting				
Cover Strength	Appearance : No damage	F ≥ 10N With 0.5mm diameter push point $\hfill \ensuremath{F}$		
Soldering	Mildly activated rosin fluxes are preferred. JANTEK terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.			
Lead Free Solder re-flow:	Recommended temperature profiles for re-flow soldering in Figure 1.			
Soldering Iron (Figure 2):	Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended. Note : • Preheat circuit and products to 150°C • Never contact the ceramic with the iron tip • Use a 20 watt soldering iron with tip diameter of 1.0mm • 350°C tip temperature (max) • 1.0mm tip diameter (max) • Limit soldering time to 4~5 sec			
Reflow Soldering				
PRE-HE	ATING SOLDERING NATURAL	Iron Soldering		
О ¹ ¹ ² ² ² ² ² ² ² ²	TP(260°C / 10s max.) 0s.) 60~150s 0s.) max. TIME(sec.) Reflow times: 3 times max. Fig.1	PRE-HEATING SOLDERING NATURAL Soldering the second		