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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					
APPLICABLE STANDARD											
RATING	Operating Temperature Range		-40°C to 125°C (Note1)			Storage Temperature Range		-10°C to +60°C (Note3)			
	Operating Humidity Range		20% to 85% (Note2)			Storage Humidity Range		40% to 70% (Note3)			
	Current		1.0A			Applicable Connector		TB4-16P-1F(800)			
	Voltage		100V AC/DC								
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS				QT	AT
CONSTRUCTION											
General Examination		Visually and by measuring instrument.				According to drawing.				0	0
Marking		Confirmed visually.								0	-
ELECTRICAL CHARACTERISTICS											
Contact Resistance		20mV MAX, 1mA (DC or 1000Hz).				25 mΩ MAX.				0	-
Millivolt Level Method											
Insulation Resistance		500V DC.				100MΩ Min.				0	-
Voltage Proof		500V AC for 1min.				No flashover or breakdown.				0	-
MECHANICAL CHARACTERISTICS											
Mechanical Operation		10 times insertion and extraction.				① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts.				0	-
Lock strength		Measure break strength of the lock by pulling the connector in the mating direction.				80N Min.				0	-
Vibration		Acceleration 118m/s ² , Random duration 8h, Frequency 60 ~ 1200Hz				① No electrical discontinuity. ② No damage, crack or looseness of parts. ③ Contact resistance : 25 mΩ MAX.				0	-
Shock		Acceleration 343m/s ² , duration of pulse 5 ~ 10 ms at 10 times for 3 directions.				① No electrical discontinuity. ② No damage, crack or looseness of parts. ③ Contact resistance : 25 mΩ MAX.				0	-
ENVIRONMENTAL CHARACTERISTICS											
Temperature, humidity cycling		Temperature -40 °C → + 125 °C Time 8h/1cycle 40Cycles humidity 80 ~ 100 %				① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts. ③ Insulation resistance : 100M Ω MIN.				0	-
Rapid Change of Temperature		Temperature -40 °C → +125 °C Time 30min → 30min 100 Cycles.				① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts. ③ No electrical discontinuity.				0	-
Dry Heat		Exposed at 125±2 °C, 1,008h				① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts.				0	-
Cold		Exposed at -40±2 °C, 120h				① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts.				0	-
Resistance To SO ₂ Gas		Exposed in 25 PPM at 75% Min for 96h				① Contact resistance : 25mΩ MAX.				0	-
Resistance To Soldering Heat		Reflow time Number of reflow cycles : 2cycles MAX. Duration above 220 °C, 60sec. MAX. Peak temperature : 250 °C, 10sec. MAX.				No deformation of case of excessive looseness of the terminals.				0	-
Solderability		Soldering temperature: 245 °C Duration of immersion :soldering, for 5 sec.				New uniform coating of solder shall cover minimum of 95 % of the surface Being immersed.				0	-
Remarks Note1 : Include the temperature rising by current. Note2 : No condensing. Note3 : Apply to the condition of long term storage for unused products before PCB on board, after PCB on board, operating temperature and humidity range is applied for interim storage during transportation.											
				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED			
				H.S.CHOI	H.S.CHOI	S.M.LIM	S.M.LIM				
				24.06.18	24.06.18	24.06.18	24.06.18				
NOTE QT : QUALIFICATION TEST AT : ASSURANCE TEST O : APPLICABLE TEST											
HIROSE KOREA CO.,LTD.				SPECIFICATION SHEET				PART NO. TB4-16S-1H(800)			
CODE NO.(OLD)		DRAWING NO.			CODE NO.			1			1
CL		ELC4-634395-80			CL 6601-1002-7-800						1