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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
△						△					
△						△					
<b>APPLICABLE STANDARD</b>											
RATING	OPERATING TEMPERATURE RANGE		-40℃ ~ +105℃ (note 1)			STORAGE TEMPERATURE RANGE		-10℃ ~ +50℃ (Packed Condition)			
	VOLTAGE		50V [AC(rms) / DC]			OPERATING OR STORAGE HUMIDITY RANGE		RELATIVE HUMIDITY 90% MAX(NOT DEWED)			
	CURRENT		0.5A (note 2)			APPLICABLE CONNECTOR		TF70-50S-0.5SH(800) TF70-50S-0.5SV(800)			
						APPLICABLE CABLE		FPC/FFC : T=0.3±0.03mm (HEAT RESISTANCE 105℃)			
<b>SPECIFICATIONS</b>											
ITEM		TEST METHOD				REQUIREMENTS			QT	AT	
<b>CONSTRUCTION</b>											
GENERAL EXAMINATION		Visually and by measuring instrument				According to drawing			0	0	
MARKING		Confirmed visually							0	0	
<b>ELECTRICAL CHARACTERISTICS</b>											
CONTACT RESISTANCE		Mate applicable FPC/FFC and apply a current of 1mA, 20mV AC				Initial 50 mΩ MAX, After each test 70 mΩ MAX			0	0	
INSULATION RESISTANCE		Mate applicable FPC/FFC and apply a voltage of DC 100V				Initial 500 MΩ MIN., After each test 250 MΩ MIN			0	0	
VOLTAGE PROOF		Mate applicable FPC/FFC and apply a voltage of AC 150V for 1 min.				No breakdown.			0	0	
<b>MECHANICAL CHARACTERISTICS</b>											
MECHANICAL OPERATION		20 Times insertions and extractions				① Contact resistance : 70mΩ MAX ② No damage, crack and looseness of parts			0	-	
VIBRATION		Total amplitude : 0.7mm, Frequency 10 ~ 60 Hz Acceleration : 49m/s <sup>2</sup> , Frequency 60 ~ 500 Hz 1Cycle : 11Min(1oct/min) 24Hr for 3axial directions(each 8Hr)				① No electrical discontinuity of 1μs. ② Contact resistance : 70mΩ MAX ③ No damage, crack and looseness of parts			0	-	
SHOCK		981m/s <sup>2</sup> Duration of pulse 6ms at 3 times in 3 both axial direction							0	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>											
DAMP HEAT(STEADY STATE)		Expose at 60±2℃, 90~95 %, 1000Hr.				① Contact resistance : 70mΩ MAX ② Insulation resistance : 250 MΩ MIN.			0	-	
DAMP HEAT, CYCLE		Temperature : -10±2→+25±2→65±2 Humidity : 90~96% 10Cycle(1Cycle : 24Hrs)				③ Voltage proof : No breakdown. ④ No damage, crack and looseness of parts			0	-	
RAPID CHAGE OF TEMPERATURE		Temperature : -40±3 → 15~35 → +105±3 → 15~35 ℃ Time : 30 → 2~3 → 30 → 2~3 min. Under 1000 cycles				① Contact resistance : 70mΩ MAX ② No damage, crack and looseness of parts			0	-	
DRY HEAT		Exposed at 105±3℃, 1000Hr							0	-	
COLD		Exposed at -40±3℃, 1000Hr							0	-	
CORROSION SALT SPRAY		Exposed at 35±5℃, 5±1%, 6.5 ~ 7.2pH salt water spray for 96Hr				① Contact resistance : 70mΩ MAX ② No damage, crack and looseness of parts			0	-	
HYDROGEN SULPHIDE		Exposed at 40±2℃, 80±5%RH, 10~15 ppm, 96Hr				③ No evidence of corrosion which affects to operation of connector			0	-	
SULPHUR DIOXIDE		Exposed at 40±2℃, 80±5%RH, 25±5 ppm, 96Hr							0	-	
<i>(note 1)</i> The Heat resistant temperature when using FPC/FFC is 105℃ When the heat resistant temperature of FPC/FFC is less than 105℃, the heat resistant temperature of FPC/FFC is applied.											
<i>(note 2)</i> When the same value of current are applied to all contacts at the same time in once. Set the current to the 70% of the rated current value.											
REMARKS	CONDITIONS FOR TESTING				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
					G.Y.YOON 23.04.28	G.Y.YOON 23.04.28	D.H.CHO 23.04.28	D.H.CHO 23.04.28			
UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512.											
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST											
HIROSE KOREA CO.,LTD.			SPECIFICATION SHEET			PART NO. TF70-50P-0.5F(800)					
CODE NO.(OLD)		DRAWING NO.		CODE NO.		CL 6567-0003-8-800			1/1		
CL		ELC4-633161-80									