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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℃			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 [AC(rms) / DC](note1)			APPLICABLE CABLE		FPC/FFC (t=0.3±0.03mm)			
<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			50 mΩ MAX. ※ INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)			0	0	
INSULATION RESISTANCE			MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 500V			100 MΩ MIN.			0	0	
VOLTAGE PROOF			MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 250V FOR 1 min			NO FLASHOVER OR BREAKDOWN.			0	0	
<b>MECHANICAL CHARACTERISTICS</b>											
FPC RETENSION FORCE			MEASURE BY APPLICABLE FPC/FFC(t=0.3) AT INITIAL CONDITION			①VERTICAL DIRECTION : 0.3 x n N MIN ②HORIZONTAL DIRECTION : 0.4 x n N MIN (n=Number of Contacts)			0	-	
MECHANICAL OPERATION			20 TIMES INSERTIONS AND EXTRATIONS			①CONTACT RESISTANCE: 50mΩ MAX ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS			0	-	
VIBRATION			FREQUENCY 10 ~ 55 Hz, SINGLE AMPLITUDE 0.75 mm AT 10CYCLES, IN 3 AXIAL DIRECTIONS			①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX			0	-	
SHOCK			981m/s <sup>2</sup> DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			③NO DAMAGE, CRACK AND LOOSENESS OF PARTS			0	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>											
DAMP HEAT(STEADY STATE)			EXPOSED AT 40±2℃, 90~95 %, 96Hr.			①CONTACT RESISTANCE: 50 mΩ MAX.			0	-	
RAPID CHAGE OF TEMPERATURE			TEMPERATURE : -40±3 → -15~35 → 105±2 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.			②INSULATION RESISTANCE: 50 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-	
DAMP HEAT, CYCLE			TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)						0	-	
DRY HEAT			EXPOSED AT 105±2℃, 96Hr			①CONTACT RESISTANCE : 50mΩ MAX			0	-	
COLD			EXPOSED AT -40±3℃, 96Hr			②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-	
CORROSION SALT SPRAY			EXPOSED AT 35±2℃, 5±1% SALT WATER SPRAY FOR 48Hr			①CONTACT RESISTANCE 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-	
HYDROGEN SULPHIDE			EXPOSED IN 3 PPM, 40±2℃, 80±5%, FOR 96Hr			③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.			0	-	
RESISTANCE TO SOLDERING HEAT			REFLOW SOLDERING: TEMP. : 250℃ MAX. 230℃ MIN FOR 60s. FREE HEAT 150 ~ 200℃, 90 ~ 120s			①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE			0	-	
SOLDER ABILITY			SOLDERED AT SOLDER TEMPERATURE, 245±3℃ FOR IMMERSION DURATION, 3±0.3s			DIP & LOOK TEST : 95% MIN. A NEW UNIFORM COATING OF SOLDER			0	-	
<i>(note1)</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.											
<i>(note2)</i> DO NOT CLOSE THE ACTUATOR BEFORE INSERTING FPC EVEN AFTER THE CONNECTOR IS MOUNTED ON TO A PCB CLOSING THE ACTUATOR WITHOUT FPC COULD MAKE THE CONTACT GAP SMALLER, WHICH INCREASES THE FPC INSERTION FORCE											
REMARKS			CONDITIONS FOR TESTING			DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
						YOON G.Y 18.10.15	YOON G.Y 18.10.15	CHO D.H 18.10.15	CHO D.H 18.10.15		
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. TF46-**S-0.5SH(800)					
CODE NO.(OLD) CL			DRAWING NO. ELC4-632297			CODE NO. CL ****-****-*			1 1		