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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
△	5 RE-5-1833	OCU	JDH	17. 11. 30	△				
△					△				
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-55℃ ~ +85℃			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 (t=0.2±0.03mm)			
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT			ACCORDING TO DRAWING			0	0
MARKING		CONFIRMED VISUALLY						0	0
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 1mA DC(OR 1,000Hz)			100 mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)			0	0
INSULATION RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V			500 MΩ MIN.			0	0
VOLTAGE PROOF		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			0	0
MECHANICAL CHARACTERISTICS									
FPC RETENTION FORCE		MEASURE BY APPLICABLE FPC/FFC(t=0.2) AT INITIAL CONDITION			①VERTICAL DIRECTION : 2.5 N MIN. △ ②HORIZONTAL DIRECTION : 2.5 N MIN.			0	-
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS			①CONTACT RESISTANCE: 100mΩ MAX ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS			0	-
VIBRATION		FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, 3 TIMES, IN 3 DIRECTIONS			①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 100mΩ MAX			0	-
SHOCK		981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.			③NO DAMAGE, CRACK AND LOOSENESS OF PARTS			0	-
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT(STEADY STATE)		EXPOSED AT 40℃, 90~95%, 96Hr.			①CONTACT RESISTANCE: 100 mΩ MAX.			0	-
RAPID CHAGE OF TEMPERATURE		TEMPERATURE : -55 → 15~35 → +85 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. 5 CYCLES WITH ABOVE CONDITIONS. △			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)			①CONTACT RESISTANCE: 100mΩ MAX. ②INSULATION RESISTANCE: 50 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-
DRY HEAT		EXPOSED AT 85℃, 96Hr			①CONTACT RESISTANCE : 100mΩ MAX			0	-
COLD		EXPOSED AT -55℃, 96Hr			②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-
CORROSION SALT SPRAY		EXPOSED AT 35℃, 5% SALT WATER SPRAY FOR 48Hr			①CONTACT RESISTANCE 100mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)			③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.			0	-
RESISTANCE TO SOLDERING HEAT		REFLOW SOLDERING: PROFILE : 217℃ 90~120s, 260℃ MAX.			①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE			0	-
SOLDER ABILITY		SOLDER DIPPING TEMPERATURE 245±5℃ (TEST STANDARD : MIL-STD-202) 3±0.3 SEC △			A NEW UNIFORM COATING OF SOLDER △ SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING EMMERSED.			0	-
(note 1) △ 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
(NOTE 1) : CHECK TEST					M.G.KANG	M.G.KANG	D.H.CHO	H.C.SONG	
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.					15.06.05	15.06.05	15.06.05	15.06.05	
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST									
HIROSE KOREA CO.,LTD.				SPECIFICATION SHEET			PART NO. TF12SD-10S-0.5SH(800)		
CODE NO.(OLD)		DRAWING NO.			CODE NO.			1/1	
CL		ELC4-631685-80			CL 6586-0019-6-800				