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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
①	1	RE-5-1731	OCU	JDH	17. 08. 03	△					
△						△					

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]	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	O	O
MARKING	CONFIRMED VISUALLY		O	O
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 1mA DC(OR 1,000Hz)	100mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)	O	O
INSULATION RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V	500MΩ MIN.	O	O
VOLTAGE PROOF	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	O	O
MECHANICAL CHARACTERISTICS				
FPC RETENSION FORCE	MEASURE BY APPLICABLE FPC/FFC(t=0.2) AT INITIAL CONDITION	①VERTICAL DIRECTION : 25gf X n MIN. ②HORIZONTAL DIRECTION : 25gf X n MIN. (n : NUMBER OF CONTACTS)	O	-
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRATIONS	①CONTACT RESISTANCE : 100mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	-
VIBRATION	FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS	①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 100mΩ MAX ③NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	-
SHOCK	981m/s^2 DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.			
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT(STEADY STATE)	EXPOSED AT 40℃, 90~95 %, 96Hr.	①CONTACT RESISTANCE : 100mΩ MAX. ②INSULATION RESISTANCE : 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	-
RAPID CHAGE OF TEMPERATURE	TEMPERATURE : -55 → 15~35 → +85 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.		O	-
DAMP HEAT, CYCLE	TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)	①CONTACT RESISTANCE : 100mΩ MAX. ②INSULATION RESISTANCE : 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	-
DRY HEAT	EXPOSED AT 85℃, 96Hr	①CONTACT RESISTANCE : 100mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	-
COLD	EXPOSED AT -55℃, 96Hr		O	-
CORROSION SALT SPRAY	EXPOSED AT 35℃, 5 % SALT WATER SPRAY FOR 96Hr	①CONTACT RESISTANCE : 100mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	-
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)	③NO EVIDENCE OF CORROSISON WHICH AFFECTS TO OPERATION OF CONNECTOR.	O	-
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	O	-
SOLDER ABILITY	SOLDER DIPPING TEMPERATURE 245±5℃ (TEST STANDARD : MIL-STD-202)	WETTING BALANCE TEST : 2s MAX. DIP & LOOK TEST : 95% MIN. A NEW UNIFORM COATING OF SOLDER	O	-

REMARKS CONDITIONS FOR TESTING	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.	OH.C.U 17.03.06	OH.C.U 17.03.06	CHO.D.H 17.03.06	SONG.H.C 17.03.06	ENG 17.08.03 DEPT

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. ① TF12-Series(800)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-632304-80	CL 6586-0022-0-800	1 / 1