


Feb.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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	RE-5-1731	OCU	JDH	17. 08. 03	△					
△						△					
APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE		-55°C ~ +85°C			STORAGE TEMPERATURE RANGE		-10°C ~ +50°C(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				O	-
SHOCK		981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.				③NO DAMAGE,CRACK AND LOOSENESS OF PARTS				O	-
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT(STEADY STATE)		EXPOSED AT 40°C, 90~95 %, 96Hr.				①CONTACT RESISTANCE : 100mΩ MAX.				O	-
RAPID CHAGE OF TEMPERATURE		TEMPERATURE : -55 → 15~35 → +85 → 15~35 °C TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.				②INSULATION RESISTANCE : 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				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°C, 96Hr				①CONTACT RESISTANCE : 100mΩ MAX				O	-
COLD		EXPOSED AT -55°C, 96Hr				②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				O	-
CORROSION SALT SPRAY		EXPOSED AT 35°C, 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 CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				O	-
RESISTANCE TO SOLDERING HEAT		REFLOW SOLDERING PROFILE : 217°C 90~120s, 260°C MAX.				①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE				O	-
SOLDER ABILITY		SOLDER DIPPING TEMPERATURE 245±5°C (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		
					OH.C.U 17.03.06	OH.C.U 17.03.06	CHO.D.H 17.03.06	SONG.H.C 17.03.06			
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.											
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST											
HIROSE KOREA CO.,LTD.			SPECIFICATION SHEET				PART NO. △ TF12-Series(800)				
CODE NO.(OLD) CL		DRAWING NO. ELC4-632304-80			CODE NO. CL 6586-0022-0-800					1 1	