Feb.1.2024 Copyright 2024 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	4	RE-5-1833	OCU	JDH	17. 11. 30	△					
2	1	RE-5-2459	OCU	JDH	20. 07. 15	△					

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	2 FFC/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)	100 mΩ MAX. INCLUDING FFC/FPC BULK RESISTANCE(L=8mm)	O	O
INSULATION RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V	500 MΩ 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 : 0.25N/Pin MIN. ②HORIZONTAL DIRECTION : 0.25N/Pin MIN.	O	–
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS	①CONTACT RESISTANCE: 100mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	–
VIBRATION	FREQUENCY 10 ~ 55 Hz, HALF AMPLITUDE 0.75 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℃, 90~95 %, 96Hr.	①CONTACT RESISTANCE: 100 mΩ MAX. ②INSULATION RESISTANCE: 100 MΩ 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. 5 CYCLES WITH ABOVE CONDITIONS. 1		O	–
DAMP HEAT, CYCLE	TEMPERATURE −10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)	①CONTACT RESISTANCE: 100mΩ MAX. ②INSULATION RESISTANCE: 100 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
DRY HEAT	EXPOSED AT 85℃, 96Hr	①CONTACT RESISTANCE : 100mΩ MAX	O	–
COLD	EXPOSED AT −55℃, 96Hr	②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	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 CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	O	–
RESISTANCE TO SOLDERING HEAT	PROFILE : 250℃ MAX. 1 230℃ WITHIN 60 sec	①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE	O	–
SOLDERABILITY 1	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 IMMERSED.	O	–

(note 1)
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
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 2020.07.15 DEPT

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

HIROSE KOREA CO.,LTD.	REFERENCE SPECIFICATION SHEET	PART NO. TF13BA-SERIES (800)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
	ELC4-632308-80	CL 6508-0036-0-800	1/1