


Nov.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
△						△					
△						△					
APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE	-40℃ ~ +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	FFC(t=0.3±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 10mA, 20mv DC				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				500 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
MECHANICAL CHARACTERISTICS											
FFC RETENSION FORCE		MEASURE BY APPLICABLE FPC/FFC(t=0.3) AT INITIAL CONDITION				①VERTICAL DIRECTION : 9.8N MIN. ②HORIZONTAL DIRECTION : 19.6N MIN.				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, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS				①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX				0	-
SHOCK		490m/s ² DIRECTION OF PULSE 11ms AT 3 TIMES IN 3 DIRECTIONS.				③NO DAMAGE, CRACK AND LOOSENESS OF PARTS				0	-
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT(STEADY STATE)		EXPOSED AT 40±2℃, 90~95%, 96Hr.				①CONTACT RESISTANCE: 50 mΩ MAX. ②INSULATION RESISTANCE: 100 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				0	-
RAPID CHAGE OF TEMPERATURE		TEMPERATURE : -40±2 → 15~35 → +85±2 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.								0	-
DAMP HEAT, CYCLE		TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)								0	-
DRY HEAT		EXPOSED AT 85±2℃, 96Hr				①CONTACT RESISTANCE : 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				0	-
COLD		EXPOSED AT -40±2℃, 96Hr								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. ③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				0	-
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)								0	-
RESISTANCE TO SOLDERING HEAT		REFLOW SOLDERING: PEAK TMP. : 260℃ MAX. 10s MIN. REFLOW TMP. : 217℃ FOR 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±0.3 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		
					M.G.KANG	M.G.KANG	D.H.CHO	H.C.SONG			
					14.09.16	14.09.16	14.09.16	14.09.16			
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. TF49-50S-0.5SH(800)			
CODE NO.(OLD)		DRAWING NO.			CODE NO.						
CL		ELC4-631681-80			CL 6545-0001-5-800					1/1	