APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C (1) (2)	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C (3)
	OPERATING HUMIDITY RANGE	RH 90 % MAX (2) (4)	STORAGE HUMIDITY RANGE	RH 70 % MAX (3) (4)
	VOLTAGE	300 V DC/AC	CURRENT	Apply to spec of applicable connector

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT	ACCORDING TO DRAWING	×	×
MARKING	CONFIRMED VISUALLY		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE [EIA-364-23]	100 mA AND 20 mV OPEN CIRCUIT MAX.	2 mΩ MAX.(5) MATED WITH IT-P-2P-**H	×	×
INSULATION RESISTANCE [EIA-364-21]	500 V DC	1000 MΩ MIN.	×	
VOLTAGE PROOF [EIA-364-20]	1000 V AC FOR 1 MINUTE	NO FLASHOVER OR BREAKDOWN.	×	
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED WITH RESPECT TO APPLICABLE CONNECTORS	INSERTION FORCE: 50 N MAX. WITHDRAWAL FORCE: 3 N MIN.	×	
MECHANICAL OPERATION [EIA-364-09]	100 TIMES INSERTION AND EXTRACTION	① CONTACT RESISTANCE: 2 mΩ MAX. (5) ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS	×	
RANDOM VIBRATION [EIA-364-28]	FREQUENCY : 50 TO 2000 Hz POWER SPECTRAL DENSITY : 0.1 g^2/Hz FOR 90 MINUTES IN THREE DIRECTIONS ＊The test sample fixes PCB by spacers other than the connector.	① NO ELECTRICAL DISCONTINUITY OF 1 μs OR MORE ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS	×	
SHOCK [EIA-364-27]	490 m/s^2 , DURATION OF PULSE : 11 ms 18 TIMES TOTAL , 3 EACH DIRECTION , 3 AXIS ＊The test sample fixes PCB by spacers other than the connector.		×	
ENVIRONMENTAL CHARACTERISTICS				
THERMAL SHOCK [EIA-364-32]	TEMPERATURE: -55 →20 ~ 35 → 85 →20 ~ 35 °C TIME: 30 → 5 MAX → 30 → 5 MAX min. UNDER 10 CYCLES	① CONTACT RESISTANCE : 2 mΩ MAX. (5) ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS	×	
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME UNDER 24 CYCLES			
DRY HEAT [EIA-364-17]	EXPOSED AT 105 °C, 120 hr	① CONTACT RESISTANCE : 2 mΩ MAX. (5) ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS	×	
MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30 °C, 70% Cl_2 : 10 ppb, NO_2 : 200 ppb, H_2S : 10 ppb, SO_2 : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS	① CONTACT RESISTANCE : 2 mΩ MAX. (5) ② NO HEAVY CORROSION	×	
REFLOW TEMPERATURE CONDITION [IPC / JEDEC STD-020]	PRECONDITION AT 60 °C, 60% RH FOR 120 hr REFLOW PEAK TEMPERATURE : 260 °C AT CONNETOR SURFACE	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

REMARKS

(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.
(2) OPERATING TEMPERATURE SHOULD BE -55 TO 55℃ WHEN HUMIDITY EXCEEDS 80% RH.
(3) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.
(4) NO DEW CONDENSATION IS PERMITTED.
(5) THE VALUE OF CONTACT RESISTANCE INCLUDES 2 CONTACT POINTS AND THE BULK RESISTANCE.

APPROVED	HS. OKAWA	11. 12. 16
CHECKED	KI. HIROKAWA	11. 12. 15
DESIGNED	KN. SHIBUYA	11. 12. 15
DRAWN	KN. SHIBUYA	11. 12. 15

Note; QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-339734-00

HRS	SPECIFICATION SHEET	PART NO.	IT-PD-2S-DIR	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL636-0601-0-00 △0	1/1

FORM HD0011-2-1