

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 ₂ S : 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
△							
REMARKS				APPROVED	HS. OKAWA	11. 12. 16	
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.				CHECKED	KI. HIROKAWA	11. 12. 15	
(2) OPERATING TEMPERATURE SHOULD BE -55 TO 55°C WHEN HUMIDITY EXCEEDS 80% RH.				DESIGNED	KN. SHIBUYA	11. 12. 15	
(3) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.				DRAWN	KN. SHIBUYA	11. 12. 15	
(4) NO DEW CONDENSATION IS PERMITTED.							
(5) THE VALUE OF CONTACT RESISTANCE INCLUDES 2 CONTACT POINTS AND THE BULK RESISTANCE.							
Note; QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-339733-00	
HRS	SPECIFICATION SHEET			PART NO.		IT-PM-2S-DIR	
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL636-0600-7-00	△ 1/1