

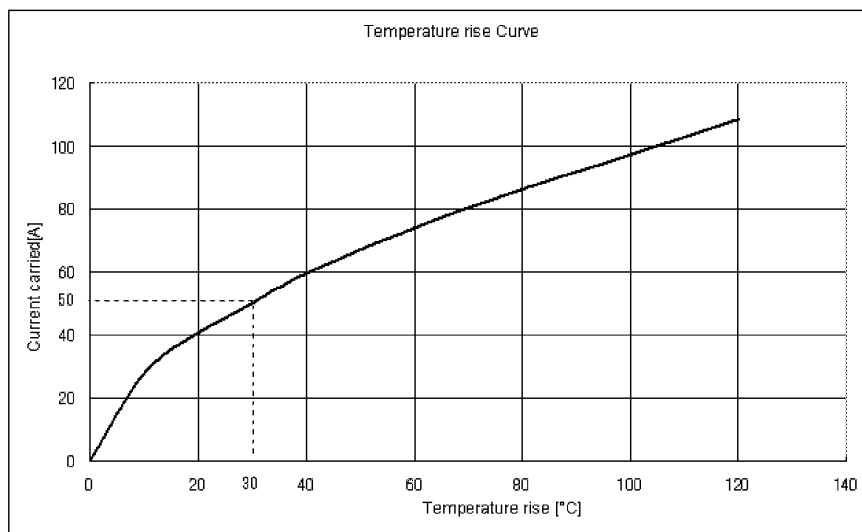
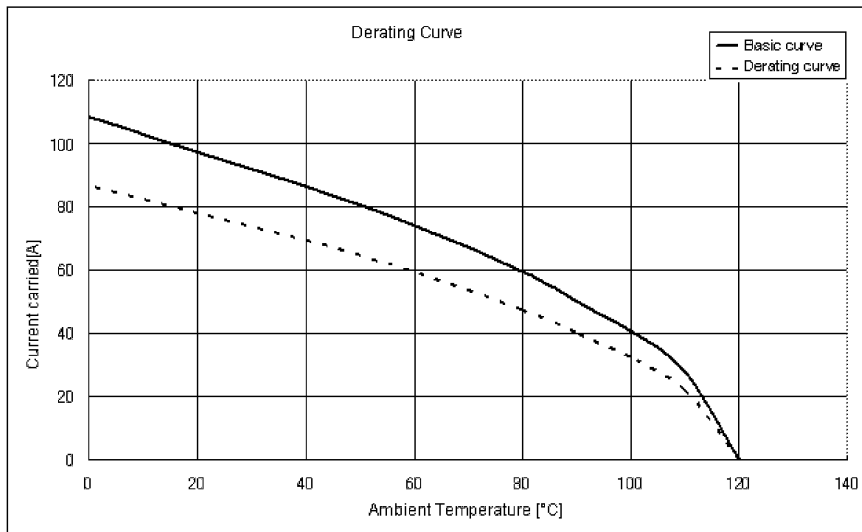
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APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C ^{(1) (2)}		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C ⁽³⁾	
	OPERATING HUMIDITY RANGE	RH 90 % MAX ^{(2) (4)}		STORAGE HUMIDITY RANGE	RH 70 % MAX ^{(3) (4)}	
	VOLTAGE	300 V DC/AC		CURRENT	50A (TEMPERATURE RISE 30°C MAX)	
	SPECIFICATIONS					
ITEM	TEST METHOD			REQUIREMENTS	QT	AT
CONSTRUCTION						
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT			ACCORDING TO DRAWING	x	x
MARKING	CONFIRMED VISUALLY				x	x
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE [EIA-364-23]	100 mA AND 20 mV OPEN CIRCUIT MAX.			2 mΩ MAX. ⁽⁵⁾ MATED WITH IT-PM-2S-DIR IT-PD-2S-DIR	x	
INSULATION RESISTANCE [EIA-364-21]	500 V DC			1000 MΩ MIN.	x	
VOLTAGE PROOF [EIA-364-20]	1000 V AC FOR 1 MINUTE			NO FLASHOVER OR BREAKDOWN.	x	
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.	x	
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	x	
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	x	
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.				x	
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	x	
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				x	
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	x	
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	x	
	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.		ELC4-339735-00
	SPECIFICATION SHEET			PART NO.	IT-P-2P-35H	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL636-0602-2-00	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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[REFERENCE] DERATING CURVE AND TEMPERATURE RISE CURVE

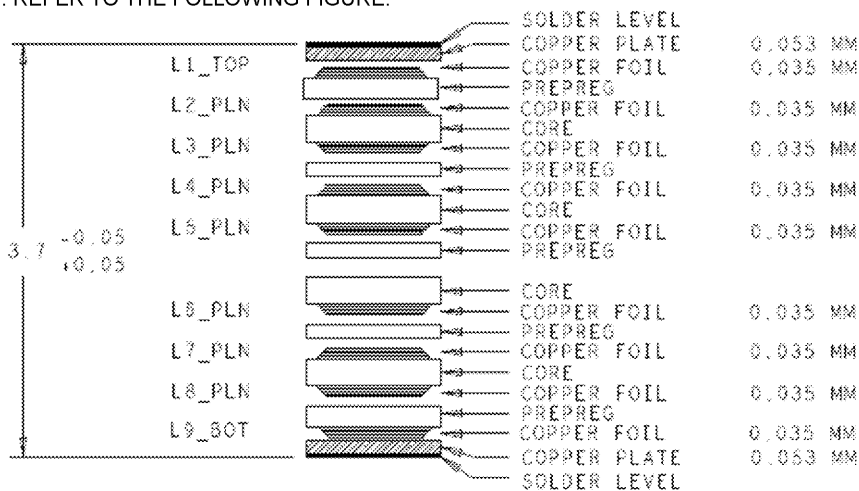


<TEST BOARD CONDITIONS>

SIZE : 80 x 68 x t3.7 mm (9 LAYERS PCB)

MATERIAL : GLASS FIBER, EPOXI RESIN (FR-4)

COMPOSITION : REFER TO THE FOLLOWING FIGURE.



Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-339735-00

HRS	SPECIFICATION SHEET	PART NO.	IT-P-2P-35H	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL636-0602-2-00	△ 2/2

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