




APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C			
	VOLTAGE	AC 50 V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY: 90% MAX (NO DEW CONDENSATION IS PERMITTED)			
	CURRENT	SIGNAL: 0.2A POWER: REFER TO TEST REPORT TR636E-20282 FOR SPECIFIC POWER APPLICATIONS OR CONTACT HIROSE.					
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
GENERAL EXAMINATION		VISUAL AND WITH MEASURING INSTRUMENT		ACCORDING TO A DRAWING		X	X
MARKING		CONFIRM VISUALLY				X	X
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE [EIA-364-23]		100 mA		70 mΩ MAX (*1) MATED WITH IT5**-200S-BGA(**)		X	X
INSULATION RESISTANCE [EIA-364-21]		100 V DC		1000 MΩ MIN		X	—
VOLTAGE PROOF [EIA-364-20]		150 V AC FOR 1 min		NO FLASHOVER OR BREAKDOWN		X	X
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]		MEASURED WITH RESPECT TO APPLICABLE CONNECTORS		INSERTION FORCE: 90 N MAX WITHDRAWAL FORCE: 10 N MIN		X	—
MECHANICAL OPERATION [EIA-364-09]		100 TIMES INSERTION AND EXTRACTION		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 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 <sup>2</sup> /Hz FOR 90 min IN THREE DIRECTIONS		1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS		X	—
SHOCK [EIA-364-27]		490 m/s <sup>2</sup> , DURATION OF PULSE: 11 ms 18 TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS				X	—
ENVIRONMENTAL CHARACTERISTICS							
THERMAL SHOCK [EIA-364-32]		TEMPERATURE(°C): -55 → 20 ~ 35 → 85 → 20 ~ 35 TIME(min): 30 → 5MAX → 30 → 5MAX UNDER 10 CYCLES		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) 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 HOURS		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS		X	—
MIXED FLOWING GAS [EIA-364-65]		EXPOSED AT 30 °C, 70% RH Cl <sub>2</sub> : 10 ppb, NO <sub>2</sub> : 200 ppb, H <sub>2</sub> S : 10 ppb, SO <sub>2</sub> : 100 ppb UNMATED 7 DAYS → MATED 7 DAYS		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO HEAVY CORROSION		X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
REMARK				APPROVED	MK. EZAKI	14. 10. 17	
(*1) THE VALUE OF CONTACT RESISTANCE INCLUDES 2 CONTACT POINTS AND THE BULK RESISTANCE.				CHECKED	TS. OSHIDA	14. 10. 17	
(*2) REFER TO TEST REPORT TR636E-10259 FOR FULL ELECTRICAL CHARACTERISTICS, MECHANICAL CHARACTERISTICS AND ENVIRONMENTAL CHARACTERISTICS TESTS AND RESULTS.				DESIGNED	TF. SUGAWARA	14. 10. 17	
				DRAWN	TF. SUGAWARA	14. 10. 17	
NOTE -- QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST				DRAWING NO.		ELC4-341399-01	
		SPECIFICATION SHEET		PART NO.		IT5-200P-22H (03)	
		HIROSE ELECTRIC (U.S.A.), INC.		CODE NO.		CL636-1049-4-03	
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