

Applicable standard					
Rating	Operating temperature range	-55 °C to +105 °C (90 %RH Max*1)	Storage temperature range	-10 °C to +60 °C (90 %RH Max*1)	
	Voltage	AC/DC 30V	Characteristic impedance	-	
	Current	Signal : 1.2A	Applicable cable	-	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
General examination		Visually and by measuring instrument.	According to drawing.	X	X
Marking		Confirmed visually.		X	X
ELECTRICAL CHARACTERISTICS					
Contact resistance		[EIA-364-23] Measured at 100 mA MAX (DC or 1000 Hz).	30 mΩMAX*2.	X	-
Insulation resistance		[EIA-364-21] Measured at 500 V DC.	1000 MΩ Min.	X	-
Withstanding voltage		[EIA-364-20] 500 V AC for 1 min. current leakage 2 mA Max.	No breakdown.	X	-
MECHANICAL CHARACTERISTICS					
Insertion and extraction forces		[EIA-364-13] Measured by applicable connector.	Insertion force 0.35N/Pin Max. Extraction force 0.045N/Pin Min.	X	-
Mechanical operation		[EIA-364-09] 100 times insertion and extractions.	1) Contact resistance change: 10 mΩ MAX. 2) No damage, crack and looseness of parts.	X	-
Vibration		[EIA-364-28, condition VII, condition D] Frequency 20 to 500 Hz Power spectral density: 0.02 G ² /Hz Performed over 15 min in each three directions.	1) No electrical discontinuity of 100 ns. 2) No damage, crack and looseness of parts.	X	-
Shock		[EIA-364-27, condition H] Acceleration: 294 m/s ² Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular directions.		X	-
ENVIRONMENTAL CHARACTERISTICS					
Thermal Shock		[EIA-364-32, condition I] Temperature(°C): -55 →20 - 35 → 85 →20 - 35 Time(min): 30 → 5 Max → 30 → 5 Max under 10 cycles.	1) Contact resistance change: 10 mΩ MAX. 2) No damage, crack and looseness of parts.	X	-
Cyclic Temperature & Humidity		[EIA-364-31, method III] Subjected to +25 °C, 80-98 % RH to +65 °C, 90-98 % RH for 10cycles.		X	-
Temperature Life		[EIA-364-17] Subjected to +105 °C for 240 h.		X	-
Mixed Flowing Gas		[EIA-364-65, method 2A] Subjected to +30 °C, 70 % RH, Cl ₂ : 10 ppb, NO ₂ : 200ppb, H ₂ S: 10 ppb, SO ₂ : 100 ppb. unmated for 10 Days → mated for 4 Days	1) Contact resistance change: 10 mΩ MAX. 2) No heavy corrosion which impairs functionality.	X	-
Dust		[EIA-364-91] Dust concentration: 9.0g/ft ³ Unmated 1 h.	1) Contact resistance change: 10 mΩ MAX.		
	Count	Description of revisions	Designed	Checked	Date
△	1	DIS-F-00012979	TH.SANO	NH.TAMAI	20220228
Remark			Approved	TM.MATSUO	20210607
*1 No dew condensation is permitted.			Checked	NH.TAMAI	20210607
*2 The value of contact resistance includes the bulk resistance.			Designed	TH.SANO	20210603
△ Re-create by applying the latest template.			Drawn	TH.SANO	20210603
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.	ELC-391549-00-00	
HRS	SPECIFICATION SHEET		Part No.	IT14-688S-BGA-2.5H	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL0636-6001-0-00	△ 1/1