

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾	
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %	
	CURRENT	0.5A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾	
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
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		100 mA (DC or 1000 Hz).	30 mΩ MAX.	x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX, 1 mA(DC OR 1000Hz)	30 mΩ MAX.	x	—
INSULATION RESISTANCE		250 V DC.	1000 MΩ MIN.	x	—
VOLTAGE PROOF		300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x	—
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES		□0.5±0.002 BY STEEL GAUGE.	INSERTION FORCE: 2.9 N MAX. EXTRACTION FORCE: 0.3 N MIN.	x	—
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.	①CONTACT RESISTANCE: 30 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
VIBRATION		FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTION.	①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
SHOCK		490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		x	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	①CONTACT RESISTANCE: 30 mΩ MAX. ②INSULATION RESISTANCE:1000 MΩ MIN.	x	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -65→+15~+35→+125→+15~+35°C TIME 30 → MAX 5 → 30 → MAX 5 min UNDER 5 CYCLES.	③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	①CONTACT RESISTANCE: 30 mΩ MAX. ②NO HEAVY CORROSION.	x	—
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 120 h. (TEST STANDARD:JEIDA 38)		x	—
RESISTANCE TO SOLDERING HEAT		1) SOLDER BATH:SOLDER TEMPERATURE, 260±5°C FOR IMMERSION,DURATION,10±1s. 2) SOLDERING IRONS : 360°C FOR 5 s MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245±3°C, FOR IMMERSION DURATION, 2 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.			APPROVED	HT. YAMAGUCHI	18.06.25
			CHECKED	HT. YAMAGUCHI	18.06.25
			DESIGNED	HR. NAGAYASU	18.06.25
Unless otherwise specified, refer to MIL-STD-1344.			DRAWN	TS. HORI	18.06.25
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-383736-00-00
HRS	SPECIFICATION SHEET		PART NO.	HIF6B-**DA-1. 27DS (71)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	△	1/1