

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-40°C TO +85°C(95%RH MAX)	STORAGE TEMPERATURE RANGE	-40°C TO +85°C(95%RH MAX)
	POWER	-w	CHARACTERISTIC IMPEDANCE	50Ω (0 TO 12.4 GHz)
	PECULIARITY	—	APPLICABLE CABLE	—

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT		
CONSTRUCTION						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○		
MARKING	CONFIRMED VISUALLY.		○	○		
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).	CENTER CONTACT 4 mΩ MAX.	○	○		
		OUTER CONTACT 4 mΩ MAX.	○	○		
INSULATION RESISTANCE	500 V DC.	5000 MΩ MIN.	○	○		
VOLTAGE PROOF	1000 V AC FOR 1 min. CURRENT LEAKAGE 2mA MAX.	NO FLASHOVER OR BREAKDOWN.	○	○		
VOLTAGE STANDING WAVE RATIO	FREQUENCY 0.045 TO 12.4 GHz.	VSWR 1.05+0.01f MAX.	○	—		
INSERTION LOSS	FREQUENCY TO GHz	dB MAX.	—	—		
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND EXTRACTION FORCES	[HRM] $\phi 0.91 \begin{smallmatrix} +0.005 \\ 0 \end{smallmatrix}$ BY STEEL GAUGE.	INSERTION FORCE N MAX.	—	—		
		EXTRACTION FORCE 1.5 NMIN	○	○		
	[N] $\phi 1.6 \begin{smallmatrix} 0 \\ -0.005 \end{smallmatrix}$ BY STEEL GAUGE.	INSERTION FORCE N MAX.	—	—		
		EXTRACTION FORCE 1 NMIN	○	○		
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX.	—	—		
		EXTRACTION FORCE N MAX.	—	—		
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: CENTER CONTACT 6 mΩ MAX. CHANGE OUTER CONTACT 6 mΩ MAX. CHANGE ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—		
VIBRATION	FREQUENCY 10 TO 2000 Hz SINGLE AMPLITUDE 0.75 mm, 196 m/s ² AT 10 CYCLES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—		
SHOCK	1960 m/s ² DIRECTIONS OF PULSE 6 ms AT 3 TIMES FOR 3 DIRECTIONS.		○	—		
CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)	APPLYING A PULL FORCE THE CABLE AXIALLY AT N MAX.	① NO WITHDRAWAL AND BREAKAGE OF CABLE. ② NO BREAKAGE OF CLAMP.	—	—		
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT, CYCLIC	EXPOSED AT +25 TO +85 °C, 90~96 % TOTAL 10 CYCLES (240 h)	① INSULATION RESISTANCE: 100 MΩ MIN. (AT HIGH HUMIDITY) ② INSULATION RESISTANCE: 5000 MΩ MIN. (AT DRY) ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → — → +85 → — °C TIME 30 → 3 → 30 → 3 min. UNDER 5 CYCLES.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	○	—		
REMARKS		DRAWN S. Yanaguchi 03.02.10	DESIGNED S. Yanaguchi 03.02.10	CHECKED T. Katayama 03.02.10	APPROVED T. Katayama 03.02.10	RELEASED
Unless otherwise specified, refer to JIS C 5402.						
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test						
HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. HRM-552S		
CODE NO.(OLD) CL	DRAWING NO. ELC4-007205	PART NO. CL311-0119-1		1/1		