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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	−55°C TO +125°C(95%RH MAX)	STORAGE TEMPERATURE RANGE	−55°C TO +125°C(95%RH MAX)
	POWER	——— W	CHARACTERISTIC IMPEDANCE	5 0 Ω (0.045 TO 65 GHz)
	PECULIARITY	———	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.		—	—
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).	CENTER CONTACT 16 mΩ MAX.	X	X
		OUTER CONTACT 16 mΩ MAX.	X	X
INSULATION RESISTANCE	250 V DC.	500 MΩ MIN.	X	X
VOLTAGE PROOF	250 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.	NO FLASHOVER OR BREAKDOWN.	X	X
RETURN LOSS	FREQUENCY 0.045 TO 65 GHz.	RETURN LOSS 15dB MIN : 0.045 TO 40 GHz 10dB MIN : 40 TO 65 GHz	X	X
INSERTION LOSS	FREQUENCY TO GHz	dB MAX.	—	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	[SMPM SIDE] $\phi 0.32^{+0.0025}_{0}$ BY STEEL GAUGE.	INSERTION FORCE 6.7 N MAX.	X	—
		EXTRACTION FORCE N MIN	—	—
	[SMPM SIDE] $\phi 0.2896^{+0.0025}_{0}$ BY STEEL GAUGE.	INSERTION FORCE N MAX.	—	—
		EXTRACTION FORCE 0.1 N MIN	X	X
	[HV SIDE] $\phi 0.495^{0}_{-0.005}$ BY STEEL GAUGE.	INSERTION FORCE N MAX.	—	—
		EXTRACTION FORCE 0.2 N MIN	X	X
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. [APPLICABLE CONNECTOR : SMPMP(FD)-HVP]	INSERTION FORCE 26.7 N MAX.	X	—
		EXTRACTION FORCE 13.4 N MIN	X	—
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: CENTER CONTACT 28 mΩMAX.CHANGE OUTER CONTACT 28 mΩMAX.CHANGE 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, 98 m/s^2 AT 10 CYCLES FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	—
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 -10 TO +65 °C, 90～98% TOTAL 10 CYCLES (240 h)	1) INSULATION RESISTANCE: 100 MΩ MIN. (AT HIGH HUMIDITY) 2) INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE −65 → --- → +125 → --- °C TIME 30 → 3 → 30 → 3 min. UNDER 5 CYCLES.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h	NO HEAVY CORROSION	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK
RoHS COMPLIANT

Unless otherwise specified, refer to JIS C 5402.

APPROVED	MH. YAMANE	08. 07. 19
CHECKED	TS. NOBE	08. 07. 18
DESIGNED	RO. YOKOYAMA	08. 07. 18
DRAWN	RO. YOKOYAMA	08. 07. 18

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-313093-00

HRS	SPECIFICATION SHEET	PART NO.	SMPMJ-HVJ	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL311-0421-7-00	A 1/ 1

FORM HD0011-2-1