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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	50 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] φ0.32 <sub>0</sub> <sup>+0.0025</sup>	BY STEEL GAUGE.	INSERTION FORCE	6.7 N MAX.	X	—
	[SMPM SIDE] φ0.2896 <sub>0</sub> <sup>+0.0025</sup>	BY STEEL GAUGE.	EXTRACTION FORCE	N MIN	—	—
	[HV SIDE] φ0.495 <sub>-0.005</sub> <sup>0</sup>	BY STEEL GAUGE.	INSERTION FORCE	N MAX.	—	—
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. [APPLICABLE CONNECTOR : SMPMP(FD)-HVP]		EXTRACTION FORCE	0.1 N MIN	X	X
			INSERTION FORCE	26.7 N MAX.	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 <sup>2</sup> 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 <sup>2</sup> 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	
REMARK						
RoHS COMPLIANT			APPROVED	MH. YAMANE	08.07.19	
			CHECKED	TS. NOBE	08.07.18	
			DESIGNED	RO. YOKOYAMA	08.07.18	
Unless otherwise specified, refer to JIS C 5402.			DRAWN	RO. YOKOYAMA	08.07.18	
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-313093-00		
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	SMPMJ-HVJ		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL311-0421-7-00	△ 1/1	