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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	+0.0025 0	BY STEEL GAUGE.	INSERTION FORCE	6.7 N MAX.	X	—
	[SMPM SIDE] φ0.2896	+0.0025 0	BY STEEL GAUGE.	EXTRACTION FORCE	N MIN	—	—
	[HV SIDE] φ0.495	0 -0.005	BY STEEL GAUGE.	INSERTION FORCE	N MAX.	—	—
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. [APPLICABLE CONNECTOR : SMPMP(FD)-HVP]		INSERTION FORCE	26.7 N MAX.	X	—	
	MECHANICAL OPERATION		EXTRACTION FORCE	13.4 N MIN	X	—	
	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		
	0						
REMARK	RoHS COMPLIANT		APPROVED	MH. YAMANE	08.07.19		
			CHECKED	TS. NOBE	08.07.18		
			DESIGNED	RO. YOKOYAMA	08.07.18		
			DRAWN	RO. YOKOYAMA	08.07.18		
Unless otherwise specified, refer to JIS C 5402.							
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	△ 1/1		