



# THE DATASHEET OF SMPMJ-HVJ




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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] +0.0025 φ0.32 0 BY STEEL GAUGE.			INSERTION FORCE	6.7 N MAX.	X	—
				EXTRACTION FORCE	N MIN	—	—
	[SMPM SIDE] +0.0025 φ0.2896 0 BY STEEL GAUGE.			INSERTION FORCE	N MAX.	—	—
				EXTRACTION FORCE	0.1 N MIN	X	X
	[HV SIDE] 0 φ0.495 -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 <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	
	0						
REMARK				APPROVED	MH. YAMANE	08.07.19	
RoHS COMPLIANT				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

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