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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	$50 / \sqrt{f(\text{GHz})}$ W	CHARACTERISTIC IMPEDANCE	50Ω (0 TO 18 GHz)													
	PECULIARITY	—	APPLICABLE CABLE	—													
SPECIFICATIONS																	
ITEM		TEST METHOD		REQUIREMENTS													
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	8 mΩ MAX.												
				OUTER CONTACT	8 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 18 GHz.		VSWR 1.05+0.01f [f:GHz] MAX.													
INSERTION LOSS		FREQUENCY TO GHz.		dB MAX.													
MECHANICAL CHARACTERISTICS																	
CONTACT INSERTION AND EXTRACTION FORCES		MEASURED BY $\phi 0.91 \begin{matrix} +0.005 \\ 0 \end{matrix}$ STEEL GAUGE.		INSERTION FORCE	N MAX.												
				EXTRACTION FORCE	1.5 N MIN.												
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE	N MAX.												
				EXTRACTION FORCE	N MIN.												
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTACT RESISTANCE: CENTER CONTACT 12 mΩMAX.CHANGE OUTER CONTACT 12 mΩMAX.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 4 HOURS 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 +65 °C, 90~98 % 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 -65 → — → +125 → — °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 AIR LEAKAGE.													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Δ</th> <th>COUNT</th> <th>DESCRIPTION OF REVISIONS</th> <th>DESIGNED</th> <th>CHECKED</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Δ	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	0					
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REMARK RoHS COMPLIANT				APPROVED	IJ.MITANI 06.09.25												
				CHECKED	KY.SHIMIZU 06.09.25												
				DESIGNED	TO.KATAYAMA 06.09.21												
				DRAWN	YK.SUGIYAMA 06.09.21												
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-007501-09													
HRS		SPECIFICATION SHEET		PART NO. HRM-513 (09)													
		HIROSE ELECTRIC CO., LTD.		CODE NO. CL323-0034-0-09													
				Δ 1/1													