

May.1.2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE															
Δ					Δ																			
Δ					Δ																			
<b>APPLICABLE STANDARD</b>																								
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	50Ω (0.045 TO 60GHz)																		
	PECULIARITY	_____			APPLICABLE CABLE	_____																		
<b>SPECIFICATIONS</b>																								
ITEM		TEST METHOD			REQUIREMENTS			QT	AT															
<b>CONSTRUCTION</b>																								
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			○	○															
MARKING		CONFIRMED VISUALLY.						-	-															
<b>ELECTRIC CHARACTERISTICS</b>																								
CONTACT RESISTANCE		1000 mA MAX (DC OR 1000 Hz). (STANDARD FOR MATING PORTION ONLY.)			CENTER CONTACT	4 mΩ MAX.		○	-															
					OUTER CONTACT	4 mΩ MAX.		○	-															
INSULATION RESISTANCE		250 V DC.			500 MΩ MIN.			○	○															
VOLTAGE PROOF		300 V AC FOR 1 min. CURRENT LEAKAGE 2mA MAX.			NO FLASHOVER OR BREAKDOWN.			○	○															
VOLTAGE STANDING WAVE RATIO		FREQUENCY 0.045 TO 60 GHz			VSWR : 1.15 MAX.	0.045 - 26.5 GHz		○	○															
					VSWR : 1.25 MAX.	26.5 - 50 GHz																		
					VSWR : 1.35 MAX.	50 - 60 GHz																		
INSERTION LOSS		FREQUENCY _____ GHz			dB MAX.			-	-															
<b>MECHANICAL CHARACTERISTICS</b>																								
CONTACT INSERTION AND EXTRACTION FORCES		φ0.495 <sup>0</sup> <sub>-0.005</sub> BY STEEL GAUGE.			INSERTION FORCE	N MAX.		-	-															
					EXTRACTION FORCE	0.2~2 N.		○	○															
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE	N MAX.		-	-															
					EXTRACTION FORCE	N MIN.		-	-															
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: CENTER CONTACT 6 mΩ MAX. CHANGE OUTER CONTACT 6 mΩ MAX. CHANGE			○	-															
					② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.																			
VIBRATION		FREQUENCY 10 TO 2000 Hz SINGLE AMPLITUDE 0.75 mm, 196 m/s <sup>2</sup> AT 12 CYCLES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs.			○	-															
					② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.																			
SHOCK		980 m/s <sup>2</sup> DIRECTIONS OF PULSE 6 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO WITHDRAWAL AND BREAKAGE OF CABLE.			-	-															
					② NO BREAKAGE OF CLAMP.																			
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.			-	-															
<b>ENVIRONMENTAL CHARACTERISTICS</b>																								
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.																			
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 HEAVY CORROSION.			○	-															
<b>REMARKS</b>																								
NOTE					<table border="1"> <tr> <td>DRAWN</td> <td>DESIGNED</td> <td>CHECKED</td> <td>APPROVED</td> <td>RELEASED</td> </tr> <tr> <td>N. Asana</td> <td>N. Asana</td> <td>J. Mitani</td> <td>T. Kobayashi</td> <td></td> </tr> <tr> <td>'03.4.14</td> <td>'03.4.14</td> <td>'03.4.14</td> <td>'03.04.15</td> <td></td> </tr> </table>					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	N. Asana	N. Asana	J. Mitani	T. Kobayashi		'03.4.14	'03.4.14	'03.4.14	'03.04.15	
DRAWN	DESIGNED									CHECKED	APPROVED	RELEASED												
N. Asana	N. Asana	J. Mitani	T. Kobayashi																					
'03.4.14	'03.4.14	'03.4.14	'03.04.15																					
MEASURING METHOD																								
Unless otherwise specified, refer to MIL-STD-202.																								
Note QT:Qualification Test AT:Assurance Test O:Applicable Test																								
<b>HRS</b> HIROSE ELECTRIC CO., LTD.				<b>SPECIFICATION SHEET</b>			PART NO. HV-BR01																	
CODE NO.(OLD) CL396-6555-6		DRAWING NO. ELC4-300258		PART NO. CL338-0200-7				1/1																

TO
RF

