


Aug.1.2022 Copyright 2022 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.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40°C TO +85°C	STORAGE TEMPERATURE RANGE	-40°C TO +85°C	
	POWER	2(AT 25°C) W CW 1(AT 85°C) W CW	CHARACTERISTIC IMPEDANCE	50 Ω ( DC TO 18 GHz)	
	OPERATING RELATIVE HUMIDITY	95% MAX	USED CONNECTOR	SMA.P-J	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.			X	X
ELECTRIC CHARACTERISTICS					
V.S.W.R.	MUST BE UNDER THE STD.VALUE AT FREQUENCY DC TO 4.0 GHz		MAXIMUM OF 1.15	X	X
	MUST BE UNDER THE STD.VALUE AT FREQUENCY 4.0 TO 12.4 GHz		MAXIMUM OF 1.20		
	MUST BE UNDER THE STD.VALUE AT FREQUENCY 12.4 TO 18.0 GHz		MAXIMUM OF 1.30		
ATTENUATION	MUST BE UNDER THE STD.VALUE AT FREQUENCY DC TO 12.4 GHz		12.0 TO 14.0 dB	X	X
	MUST BE UNDER THE STD.VALUE AT FREQUENCY 12.4 TO 18.0 GHz		11.75 TO 14.25 dB		
ISOLATION	MUST BE UNDER THE STD.VALUE AT FREQUENCY TO GHz		MINIIMUM OF dB	-	-
INSULATION RESISTANCE	MUST BE OVER STANDARD VALUE AT DC V.		MINIMUM OF MΩ	-	-
VOLTAGE PROOF	V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.		NO FLASHOVER OR BREAKDOWN.	-	-
RESISTANCE VALUE	MEASURE THE RESISTANCE VALUE AT DC1V.		Ω ± %	-	-
MECHANICAL CHARACTERISTICS					
CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)	APPLYING A PULL FORCE THE CABLE AXIALLY AT N MAX.		①NO WITHDRAWAL AND BREAKAGE OF CABLE. ②NO BREAKAGE OF CLAMP.	-	-
VIBRATION	FREQUENCY 10 TO 2000 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s <sup>2</sup> AT 4 HOURS, FOR 3 DIRECTIONS.		NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	-
SHOCK	490 m/s <sup>2</sup> AT 10 TIMES FOR 3 DIRECTIONS.		NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	-
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSE TO °C, ~ %, h. THEN LEAVE IT FOR ONE HOUR OR TWO IN THE AMBIENT TEMPERATURE AND HUMIDITY.		①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	-	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-58~-55→20~35→85~88→20~35°C TIME 30 →10→15→ 30 →10→15min TEST 5 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO.		NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	-
SALT SPRAY (CORROSION)	EXPOSE TO 5 % SALT WATER SPRAY FOR 48 HOURS.		NO CORROSION WHICH AFFECTS THE OPERATION OF COMPONENT.	X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	0				
REMARK			APPROVED	MT. SHIBUTANI	11.08.04
			CHECKED	KY. SHIMIZU	11.08.04
			DESIGNED	TO. KATAYAMA	11.08.03
			DRAWN	TO. KATAYAMA	11.08.03
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-181138-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	AT-113V	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL354-0275-5-00	 1/1