Oct.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℃ TO +85℃	STORAGE TEMPERATURE RANGE	−40℃ TO +85℃
	POWER	2(AT 25℃) W CW 1(AT 85℃) W CW	CHARACTERISTIC IMPEDANCE	50Ω (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 FREQENCY DC TO 4.0 GHz	MAXIMUM OF 1.15	X	X
	MUST BE UNDER THE STD.VALUE AT FREQENCY 4.0 TO 12.4 GHz	MAXIMUM OF 1.20		
	MUST BE UNDER THE STD.VALUE AT FREQENCY 12.4 TO 18.0 GHz	MAXIMUM OF 1.30		
ATTENUATION	MUST BE UNDER THE STD.VALUE AT FREQENCY DC TO 12.4 GHz	12.0 TO 14.0 dB	X	X
	MUST BE UNDER THE STD.VALUE AT FREQENCY 12.4 TO 18.0 GHz	11.75 TO 14.25 dB		
ISOLATION	MUST BE UNDER THE STD.VALUE AT FREQENCY 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^2 AT 4 HOURS, FOR 3 DIRECTIONS.	NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	—
SHOCK	490 m/s^2 AT 10 TIMES FOR 3 DIRECTIONS.	NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSE TO ℃, ~ %, 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℃ 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
A					

REMARK

Unless otherwise specified, refer to JIS C 5402.

APPROVED	MT. SHIBUTANI	11.08.04
CHECKED	KY. SHIMIZU	11.08.04
DESIGNED	TO. KATAYAMA	11.08.03
DRAWN	TO. KATAYAMA	11.08.03

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-181138-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. AT-113V

CODE NO. CL354-0275-5-00 A 1/1