




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	CHARACTERISTIC IMPEDANCE	50 Ω (DC TO 18.0 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		6.3 TO 7.7 dB.	X	X
	MUST BE UNDER THE STD.VALUE AT FREQUENCY 12.4 TO 18.0 GHz		5.8 TO 8.2 dB		
MECHANICAL CHARACTERISTICS					
VIBRATION	FREQUENCY 10 TO 2000 Hz, TOTAL AMPLITUDE 1.52 mm, 98 m/s ² AT 4 HOURS FOR 3 DIRECTIONS.		①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	-
SHOCK	ACCELERATION : 490 m/s ² DURATION : 11 ms , HALF SINE WAVE 3 BOTH AXIAL DIRECTIONS, 3 TIMES EACH		①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	-
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK	TEMPERATURE-58~-55→20~35→85~88→20~35°C TIME 30 → 5 → 30 → 5 min TEST 5 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO.		①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.	X	-
SALT ATMOSPHERE (CORROSION)	SALT SOLUTION CONCENTRATION 5% SALT WATER SPRAY FOR 48 HOURS.		NO CORROSION WHICH AFFECTS THE OPERATION OF COMPONENT.	X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
REMARKS			APPROVED	MT. SHIBUTANI	12.02.01
ROHS COMPLIANT			CHECKED	KY. SHIMIZU	12.02.01
Unless otherwise specified, refer to MIL-STD-202..			DESIGNED	TK. SAWAGUCHI	12.01.31
			DRAWN	TK. SAWAGUCHI	12.01.31
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-181119-01	
	SPECIFICATION SHEET		PART NO.	AT-107V	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL354-0269-2-00	 1/1