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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	−40℃ TO +85℃	STORAGE TEMPERATURE RANGE	−40℃ TO +85℃
	POWER	2 W CW	CHARACTERISTIC IMPEDANCE	50Ω (DC TO 13.0 GHz)
	OPERATING RELATIVE HUMIDITY	95% MAX	USED CONNECTOR	N.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 2.0 GHz	MAXIMUM OF 1.15	X	X
	MUST BE UNDER THE STD.VALUE AT FREQENCY 2.0 TO 4.0 GHz	MAXIMUM OF 1.20		
	MUST BE UNDER THE STD.VALUE AT FREQENCY 4.0 TO 13.0 GHz	MAXIMUM OF 1.25		
ATTENUATION	MUST BE UNDER THE STD.VALUE AT FREQENCY DC TO 2.0 GHz	9.5 TO 10.5 dB.	X	X
	MUST BE UNDER THE STD.VALUE AT FREQENCY 2.0 TO 4.0 GHz	9.5 TO 10.8 dB		
	MUST BE UNDER THE STD.VALUE AT FREQENCY 4.0 TO 13.0 GHz	9.5 TO 11.0 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				
MOISTURE RESISTANCE	EXPOSE TO -10 TO 65 ℃, 80 ~ 98 %, TOTAL 10 CYCLES(240 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.	X	–
THERMAL SHOCK	TEMPERATURE-58~-55→20~35→85~88→20~35℃ 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
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REMARK
ROHS COMPLIANT

Unless otherwise specified, refer to MIL-STD-202.

APPROVED	MT. SHIBUTANI	12. 02. 01
CHECKED	KY. SHIMIZU	12. 02. 01
DESIGNED	TK. SAWAGUCHI	12. 01. 30
DRAWN	TK. SAWAGUCHI	12. 01. 30

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

DRAWING NO. ELC4-030147-01

HRS	SPECIFICATION SHEET	PART NO.	AT-410(40)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL354-0035-1-40 ⚠1	1/1