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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	0.25 W (at 65℃)	CHARACTERISTIC IMPEDANCE	50Ω (DC TO 18 GHz)
	OPERATING RELATIVE HUMIDITY	95% MAX	USED CONNECTOR	HRM-P(SMA-P)

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 1.08	X	X
	MUST BE UNDER THE STD.VALUE AT FREQENCY 4.0 TO 8.0 GHz	MAXIMUM OF 1.10		
	MUST BE UNDER THE STD.VALUE AT FREQENCY 8.0 TO 12.4 GHz	MAXIMUM OF 1.12		
	MUST BE UNDER THE STD.VALUE AT FREQENCY 12.4 TO 18.0 GHz	MAXIMUM OF 1.15		
RESISTANCE VALUE	MEASURE THE RESISTANCE VALUE AT DC1V.	48 TO 52 Ω	X	X
TEMPERATURE RISE	IMPRESSED THE POWER RATING(DC).	MAXIMUM OF 40℃	X	–
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				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 →15～35 →85 →15～35℃ TIME 30 →2～3 → 30 →2～3 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	–
MASS	LESS THAN SPECIFICATION VALUE.	3g MAX.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠1	1	DIS-D-00000579	YI. FUNADA	TO. KATAYAMA	15. 10. 09

REMARK
(1) ROHS COMPLIANT
(2) USE LEAD FREE SOLDER(Sn3.0Ag0.5Cu).
⚠1 Unless otherwise specified, refer to IEC 60512.

APPROVED	KY. SHIMIZU	15. 01. 14
CHECKED	TO. KATAYAMA	15. 01. 14
DESIGNED	YI. FUNADA	15. 01. 14
DRAWN	YI. FUNADA	15. 01. 14

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

DRAWING NO. ELC-030012-50-50

HRS	SPECIFICATION SHEET	PART NO.	HRM-601A(50)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL353-0017-3-50 ⚠	1/1

FORM HD0011-2