


Feb.1.2025 Copyright 2025 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	-55°C TO +85°C	STORAGE TEMPERATURE RANGE	-10°C TO +60°C	
	VOLTAGE	AC 50V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY:90% MAX (NO DEW CONDENSATION IS PERMITTED)	
	CURRENT	SIGNAL: 0.5A			
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT	ACCORDING TO A DRAWING	X	X	
MARKING	CONFIRM VISUALLY		X	X	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE [EIA-364-23]	100mA	50mΩ MAX (*1) (HEIGHT:10 ~ 13mm)	X	—	
INSULATION RESISTANCE [EIA-364-21]	100V DC	1000MΩ MIN	X	—	
VOLTAGE PROOF [EIA-364-20]	150V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN	X	—	
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED WITH RESPECT TO APPLICABLE CONNECTORS	INSERTION FORCE: 200N MAX WITHDRAWAL FORCE: 15N MIN	X	—	
MECHANICAL OPERATION [EIA-364-09]	100 TIMES INSERTION AND EXTRACTION	1) CONTACT RESISTANCE CHANGE:20mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—	
RANDOM VIBRATION [EIA-364-28]	FREQUENCY:50 TO 2000Hz POWER SPECTRAL DENSITY:0.1G ² /Hz FOR 120 min IN 3 DIRECTIONS	1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—	
SHOCK [EIA-364-27]	490m/s ² , DURATION OF PULSE:11ms 18 TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS		X	—	
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK [EIA-364-32]	TEMPERATURE(°C): -65 → 20 ~ 35 → 105 → 20 ~ 35 TIME(min): 30 → 5MAX → 30 → 5MAX UNDER 25 CYCLES	1) CONTACT RESISTANCE CHANGE:20mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—	
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25°C, 80% RH:60 min DWELL TIME ↓ 30 min RAMP TIME @ 65°C, 50% RH:60 min DWELL TIME UNDER 24 CYCLES		X	—	
DRY HEAT [EIA-364-17]	EXPOSED AT 105°C, 120 HOURS	1) CONTACT RESISTANCE CHANGE:20mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—	
MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30°C, 70% RH Cl ₂ :10ppb, NO ₂ :200ppb, H ₂ S:10ppb, SO ₂ :100ppb UNMATED 7 DAYS → MATED 7 DAYS	CONTACT RESISTANCE CHANGE:20mΩ OR LESS	X	—	
REFLOW TEMPERATURE CONDITION [IPC/JEDEC STD-020]	REFLOW TEMP. (UP TO 2 CYCLES) CONDITION FOR LEAD FREE SOLDER >PEAK TEMP. :260°C, 5 SEC. MAX >SOLDERING TEMP.:217°C MIN, 45-120 SEC >PREHEATING :160-215°C, 0-120 SEC	NO BLISTER OR EVIDENCE OF MELTING	X	—	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK (*1) THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE. Unless otherwise specified, refer to IEC 60512.			APPROVED	TM.MATSUO	20200403
			CHECKED	AS.MATSUZAWA	20200403
			DESIGNED	XINGYU CHENG	20200403
			DRAWN	XINGYU CHENG	20200403
NOTE	QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST	DRAWING NO.	ELC-385544-00-00		
HRS	SPECIFICATION SHEET		PART NO.	IT8MB-288S-BGA-12H	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL636-3907-0-00	 1/1