


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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	-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: 85N MAX WITHDRAWAL FORCE: 7N 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.			APPROVED	TM.MATSUO	20200611
			CHECKED	AS.MATSUZAWA	20200611
			DESIGNED	KT.AIZAWA	20200611
			DRAWN	YK.SOUMA	20200610
Unless otherwise specified, refer to IEC 60512.					
NOTE QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST			DRAWING NO.		ELC-385563-00-00
HRS	SPECIFICATION SHEET		PART NO.	IT8MB-120S-BGA-10H	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL636-3804-0-00	 1/1