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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 °C TO +65 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC/DC 29.9 V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY: 90% MAX (NO DEW CONDENSATION IS PERMITTED)	
	CURRENT	1A (*1)			
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]	100 mA		20 mΩ MAX (*1,2)	X	—
INSULATION RESISTANCE [EIA-364-21]	100 V DC		1000 MΩ MIN	X	—
VOLTAGE PROOF [EIA-364-20]	500 V AC FOR 1 min		NO FLASHOVER OR BREAKDOWN	X	—
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 39 N MAX WITHDRAWAL FORCE: 3 N MIN	X	—
MECHANICAL OPERATION [EIA-364-09]	25TIMES INSERTION AND EXTRACTION		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
RANDOM VIBRATION [EIA-364-28]	FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G ² /Hz FOR 60 min IN THREE DIRECTIONS		1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
SHOCK [EIA-364-27]	490 m/s ² , DURATION OF PULSE: 11 ms 18 TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS			X	—
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK [EIA-364-32]	TEMPERATURE(°C): -55 → 20 ~ 35 → 85 → 20 ~ 35 TIME(min): 30 → 5MAX → 30 → 5MAX UNDER 10 CYCLES		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25 °C, 90-95% RH: 120 min DWELL TIME ↓ 120 min RAMP TIME @ 65 °C, 90-95% RH: 120 min DWELL TIME UNDER 60 CYCLES			X	—
DRY HEAT [EIA-364-17]	EXPOSED AT 105°C, 300 HOURS		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS	X	—
DUST [EIA-364-91]	UNMATED 1 HOUR		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS	X	—
MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30 °C, 70% RH Cl ₂ : 10 ppb, NO ₂ : 200 ppb, H ₂ S : 10 ppb, SO ₂ : 100 ppb MATED 10 DAYS		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO HEAVY CORROSION	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK (*1) SPECIFICATION WHEN MATED WITH CARD EDGH BOARD (*2) THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE	APPROVED	TM. MATSUO	20181212		
	CHECKED	MK. EZAKI	20181211		
	DESIGNED	XINGYU CHENG	20181211		
	DRAWN	XINGYU CHENG	20181211		
NOTE -- QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST			DRAWING NO.	ELC-378490-00-01	
	SPECIFICATION SHEET		PART NO.	IT12M1-60S-0.8SV	
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