

製品 仕様書 Product Specification

3M 印 MDR ボードマウント リセプタクル ストレートタイプ 102XX-62X2 PX

3M Brand MDR Board Mount Receptacle Straight Type 102XX-62X2 PX

APRV. Johnson 8/18 2004 CHKD. 7. Show for \$/18 2008 PRPD. 7. Nagane 8/18, 2004

SUMITOMO 3M LIMITED

ELECTRONIC SOLUTIONS DIVISION TECHNICAL DEPARTMENT

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1. FUNCTION

This connector is one of MDR board mount receptacle straight series. And mating side has 2 rows of female contacts with the pitch of 1.27mm and contact tails are arranged in 1.27mm×1.905mm staggered grid. This connector can be mounted on the compatible PC board and mating with MDR plug connector enables to have the electrical performance.

This connector is grounded by screw lockdown.

2. COMPATIBLE OBJECTS

2-1 COMPATIBLE CONNECTORS

3M BRAND MDR PLUG: 101XX-XXXX XX

2-2 COMPAIBLE PC BOARDS

PCB with solder plating hole See RELATED SPECIFICATION DRAWINGS recommended hole pattern. 4U-0010-0466-2

3. RELATED SPECIFICATION DRAWINGS

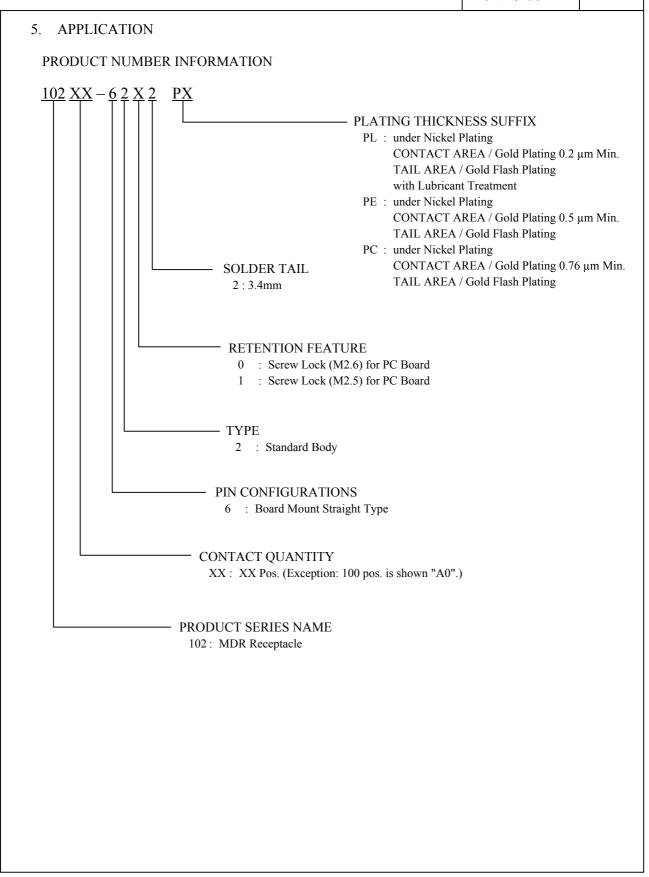
See the drawings described in JNPD-0814.

4. RELATED TEST STANDARDS

MIL-STD-202 JEIDA-38-1984 JIS C 0050 JNTM-0039, JNTM-0040

*JNTM: Test Method Standard of Sumitomo 3M for Electronic and Electrical Component Parts.

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6. QUALITY PERFORMANCE

6-1 RATING

ITEM	RATING
CURRENT	0.5A Max.
VOLTAGE	AC: 150V Max. / DC: 200V Max.
TEMPERATURE	-55°C ~ 85°C

6-2 PHYSICAL SPECIFICATIONS

* The value in () is reference.

TEST DESCRIPTION	REQUIREMENT	TEST CONDITION	RELATED STANDARD
CONTACT RETENTION FORCE	7.85N (0.8 kgf) Min.	Tensile speed 5mm / min.	
INSERTION & WITHDRAWAL FORCE	Insertion Force: 1.47N (150 gf) Max. Withdrawal Force: 0.39N (40 gf) Min.	Tensile speed 5mm / min with Compatible connector. Spec. Value is estimated by one contact pin.	
CONTACT SOLDER ABILITY	Wetting: 95% Min. or Zero cross time: 3 seconds Max.	Solder: Sn-3Ag-0.5Cu - Wetting Measurement: 245°C, 3 seconds - Wetting Balance Method: 245°C	JNTM-0039 JIS C 0050
SOLDERING HEAT RESISTANCE	Connector should not have any defect portions after test.	Dip soldering: 260°C, 10 seconds, 2 times or 263°C, 5seconds, 2 times * Pre-heat Condition: Temp. of Components 100°C Max. Duration 60 seconds Max. Soldering iron: 390°C, 3 seconds, 2 times	JNTM-0040

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6-3 ELECTRICAL SPECIFICATIONS

TEST DESCRIPTION	REQUIREMENT	TEST CONDITION	RELATED STANDARD
DIELECTRIC WITHSTANDING VOLTAGE	No appearance of arcing and break down. Leak current: 1mA Max.	Impressed voltage is AC 500V rms. between adjacent two contacts for one minute.	
INSULATION RESIDENSE	500MΩ Min.	Impressed voltage is DC 500V between adjacent two contacts for one minute.	
DISCONTINUITY	Less than 1µs	- Vibration test * as the part of 3M SEQUENCE-II - Mechanical sock test	See Table 1.
	Initial / for each plating spec. $35 \text{m}\Omega$ Max. Change of contact resistance after evaluation tests/ for each plating spec. $\pm 25 \text{m}\Omega$ Max.	Contact resistance is measured at Short Circuit. Current: 1.5mA Open Circuit Voltage: 20mV by 4 terminal method. * Measurement values include the resistance of contact pins as conductive material. (1) PL Plating 3M SEQUENCE -I/ mating (30 cycles) → moisture → salt spray 3M SEQUENCE -II / thermal shock → humidity → vibration 3M SEQUENCE -III / thermal life	
CONTACT RESISTANCE		H ₂ S GAS SEQUENCE / mating (30 cycles) → H ₂ S gas DURABILITY / 300 cycles MECHANICAL SHOCK / (2) PE Plating and PC Plating 3M SEQUENCE -I / mating (50 cycles) → moisture → salt spray 3M SEQUENCE -II / thermal shock → humidity → vibration 3M SEQUENCE -III / thermal life H ₂ S GAS SEQUENCE / mating (50 cycles) → H ₂ S gas DURABILITY / 500 cycles * NOTE: See Table 1. for environmental tests.	See Table 1.

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Table 1: ENVIROMENTAL TEST

ITEM	ITEM TEST CONDITION	
MOISTURE	-10 ~ 65°C, Relative Humidity 95% / 10 cycles	MIL-STD-202F106D
SALT SPRAY NaCl 5% solution, 35°C / 48 hours		MIL-STD-202F101D
THERMAL SHOCK	-55°C→25°C→85°C→25°C / 5 cycles	MIL-STD-202F107G
HUMIDITY (STEADY STATE)	40°C, Relative Humidity 95% / 96 hours	MIL-STD-202F103B
THERMAL LIFE	Steady Current: Current Rating × 110%, 85°C / 1000 hours	
H_2S GAS 3 ± 1 ppm, 40°C, Relative Humidity $70 \sim 80\% / 96$ hours		JEIDA-38-1984
VIBRATION	Sweep Freq.: 10 ~ 55Hz, Amplitude: 1.52mm (or 98 m/s²) Sweep Cycle: 1 min., Sweep time: 2 hours Sweep Directions: X, Y, Z	MIL-STD-202F201A
MECHANICAL 490 m/s², 11ms, Half sine shock pulse. SHOCK 3 times / X,Y,Z directions (Total 9 times)		MIL-STD-202E213B

7. PLATING SPEC INDICATION ON CONNECTOR

The first letter, in stamped 3 letters on the connector body for lot numbering, identified the following plating specs.

 \underline{R} XX : PL plating \underline{Z} XX : PE plating \underline{Y} XX : PC plating

* XX : two alphabet letters

8. PACKAGE & IDENTIFICATION

These products are packed with plastic tray and carton box for transit. Carton box is identified by part number, quantity, maker name and lot number.

9. STORAGE

This products shall be stored in a room, ambient temperature $5 \sim 35$ °C, and ambient humidity $40 \sim 70$ %.

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