ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO
TP1 1CT : 1CT
TP2 1CT : 1CT
TP3 1CT : 1CT
TP4 1CT : 1CT

INS. LOSS (MAX)
1MHz TO 20MHz 0.0 dB
50MHz -1.0 dB
200MHz -1.2 dB
400MHz -2.0 dB
500MHz -3.0 dB

RET. LOSS (MIN) @ 100 OHMS
1MHz < f < 40MHz 16 dB MIN
40MHz < f < 400MHz 16-10LOG(f/40MHz) dB
400MHz < f < 3GHz 6-30LOG(f/3GHz) dB

CM TO CM REJ
1MHz - 500MHz -25 dB MIN

CM TO DM REJ
1MHz - 500MHz -30 dB MIN

HIPPT (Peak Intermittent Voltage): 2250VDC
100% NF PRODUCTION TESTED TO MEET IEEE 802.3 ISOLATION REQUIREMENTS.

OPERATING TEMPERATURE: -40°C TO +85°C.
NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK
FLAMMABILITY RATING UL 94V 0

CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT
OUTPUT PINS: NICKEL PLATED ON COPPER ALLOY PRESS FIT PINS
METAL SHIELD: NICKEL OR TIN PLATED ON COPPER ALLOY.

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
2. MARK PART WITH MFG LOGO, NAME, PART NUMBER AND DATE CODE.
3. THE PRODUCT IS RoHS COMPLIANT.


5. THE FINISHED GOODS IS WITHOUT SMD LED. THE SMD LED IS PROVIDED BY CUSTOMER HERSELF, AND THE SMD LED IS MOUNTED ON CUSTOMER PCB.

6. RECOMMENDED MINIMUM CUSTOMER PCB THICKNESS IS 0.080 INCH.

REV. : 2 PAGE : 3

TITLE: 2X2 10 Gigabit MagJack® PRESS FIT PATENTED
PART NO. / DRAWING NO. G53-4GNV-010B
FILE NAME G53-4GNV-010B_2.DWG

UNIT : INCH [mm] SCALE : N/A SIZE : A4

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LIGHT PIPE PROFILES

PRELIMINARY

PORT ASSIGNMENT

COMPONENT SIDE VIEW

PIN-OUT INFORMATION

COMPONENT SIDE VIEW

10 TRD4+
9 TRD3
8 TRD2
7 TRD1+
6 TRD1
5 TRC1
4 TRD2
3 TRD3+
2 TRD4
1 TRD1

12 TRC2
11 TRC1
10 TRD3
9 TRD4+
8 TRD2
7 TRD1+
6 TRD1
5 TRC1
4 TRD2
3 TRD3+
2 TRD4
1 TRD1

THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

REV. 2 PAGE: 4
FINISHED HOLE DIAMETER
COPPER PLATING

TOP PLATING
DRILLED HOLE DIAMETER

PLATED-THROUGH-HOLE CROSS-SECTION

<table>
<thead>
<tr>
<th>PLATING</th>
<th>THICKNESS IN MICRO-INCHES (MICRONS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPPER</td>
<td>1000-2000 (25-50)</td>
</tr>
<tr>
<td>TOP PLATING USE ONE OPTION LISTED BELOW:</td>
<td></td>
</tr>
<tr>
<td>HOT AIR SOLDER LEVELING (HASL) TIN-LEAD (Sn-Pb)</td>
<td>160-400 (4-10)</td>
</tr>
<tr>
<td>IMMERSION TIN (Sn)</td>
<td>60-100 (2-3)</td>
</tr>
<tr>
<td>ORGANIC SN INFILTRABILITY PRESERVATIVE (OSP)</td>
<td>10-30 (0.2-0.5)</td>
</tr>
<tr>
<td>IMMERSION GILD (Au) NVFR NICKEL (Ni)</td>
<td>3G-100 (1.2-3.0)</td>
</tr>
<tr>
<td>TIN-FINISH (Sn-Pb)</td>
<td>4mil-10mil (10-25)</td>
</tr>
<tr>
<td>IMMERSION SILVER (Ag)</td>
<td>5-8 (0.10-0.15)</td>
</tr>
</tbody>
</table>

RECOMMENDED PLATED-THROUGH-HOLE CONSTRUCTION DETAILS FOR PRESS-FIT PINS

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NOTE:

1. THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION.
   IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.
2. RECOMMENDED COMPRESSION OF THE FLEXIBLE GASKET MATERIAL IS 25%.
3. RECOMMENDED FLEXIBLE GASKET THICKNESS BEFORE COMPRESSION IS 0.103 INCH.
4. THE FLEXIBLE GASKET CAN BE ORDERD SEPARATELY VIA PART NUMBER 0000M1700 0G.

PACKING INFORMATION

PACKING TRAY : 0000M9229 L2 (TOP)
               0000M9229 Q0 (BOTTOM)

PACKING QUANTITY : 15 PCS FINISHED GOODS PER TRAY.

REMARK : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.
(INCLUDE THE UPPER MUST AND LOWER MUST TRAY)