ELECTRICAL CHARACTERISTICS @ 25°C

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

INS. LOSS (MAX)
- 1MHz to 20MHz: -0.8 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 < 500MHz: 6-30LOG(f/400MHz) dB

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

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

HIPOT (Isolation Voltage):
- 2250VDC

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS.

1.2A MAX. FOR 200 MILLISECONDS.

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

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**Schematic Diagram**

- **Part No. / Drawing No.**: G37-D8NV-011B
- **File Name**: G37-D8NV-011B_1.DWG
- **Patent**
- **Drawn By**: TERRY LIN
- **Date**: 2023-08-14
- **Originated By**: CHOW WANCHUNG
- **Date**: 2023-08-14
NOTES:
PLASTIC HOUSING: THERMOPLASTIC HTN, 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.
PORT CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
PART 68 SUBPART F.
MARK PART WITH MFG LOGO, NAME, PART NUMBER AND DATE CODE.
THE PRODUCT IS ROHS COMPLIANT.
UL RECOGNIZED - FILE HE169987.

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.
7. DATUM C AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
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>20-40 (0.5-1.0)</td>
</tr>
<tr>
<td>Organic solderability preservative (OSP)</td>
<td>10-20 (0.2-0.5)</td>
</tr>
<tr>
<td>Immersion Gold (Au) over Nickel (Ni) (ENIG)</td>
<td>5-20 (0.1-0.5) (Au) over</td>
</tr>
<tr>
<td>TIN-Lead (Sn-Pb)</td>
<td>50-100 (1.2-2.5) (Ni)</td>
</tr>
<tr>
<td>Immersion Silver (Ag)</td>
<td>400-1000 (10-25)</td>
</tr>
</tbody>
</table>

Recommended Plated-through-hole Construction Details for Press-fit Pins

Part No. / Drawing No. G37-D8NV-011B

Standard Dim Tol. In Inch [ ] Metric Dim As Ref.

File Name G37-D8NV-011B_1.DWG

Size: A4

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SUGGESTED PANEL OPENING

NOTES:

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 OF 25%.
3. RECOMMENDED FLEXIBLE GASKET THICKNESS BEFORE COMPRESSION IS 0.103 INCH.
4. THE FLEXIBLE GASKET CAN BE ORDERED SEPARATELY VIA PART NUMBER 0080M1700-05.

PACKING INFORMATION

PACKING TRAY: 0200M9999-M1 (TOP)
0200M9999-R9 (BOTTOM)

PACKING QUANTITY: 6 PCS FINISHED GOODS PER TRAY.
7 TRAYS (42 PCS FINISHED GOODS) PER CARTON BOX.

REMARK: CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX. (INCLUDE THE UPPERMOST AND LOWERMOST TRAY).

ORIGINATED BY
TONY YUAN
DATE 2023-08-14

DRAWN BY
JARRY YE
DATE 2023-08-14

PART NO. / DRAWING NO.
G37-D8NV-011B

FILE NAME
G37-D8NV-011B_1.DWG

STANDARD DIM.
TOL. IN INCH

[ ] METRIC DIM.
AS REF.

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

REV.: 1
PAGE: 8