# 4-Port 90° SMT Hybrid Coupler

## Model **Q3M080450 Rev.A**

0.8-4.5GHz 4-Port 3dB 90° Hybrid, SMT

## Specifications

All specifications are subject to change without notice at any time

| | | |
|---|---|---|
| Frequency Range | GHz | 0.8-4.5 |
| Nom. Phase | Deg. (Typ.) | 90 |
| Ports VSWR | :1 (Max.) | 1.35 |
| Insertion Loss[1] | dB(Max.) | 0.65 |
| Amp. Unbalance | dB(Max.) | ±0.8 |
| Phase Unbalance | Deg. (Max.) | ±5 |
| Isolation | dB(Min.) | 15 |

**PORT CONFIGURATION**

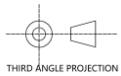
| INPUT | J1 | J2 | J3 | J4 |
|---|---|---|---|---|
| J1 | - | ISO | 0° | -90° |
| J2 | ISO | - | -90° | 0° |
| J3 | 0° | -90° | - | ISO |
| J4 | -90° | 0° | ISO | - |

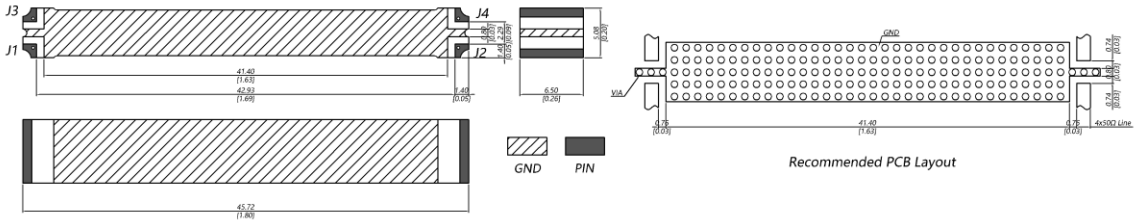
| | | | | | |
|---|---|---|---|---|---|
| Power[2] | W(Max.) | CW: 150 | | | |
| Weight | g(Max.) | 4 | Dimension[3] | mm (LxWxH) | 5.08x45.72x6.50 |
| Interface | Surface Mount | | | | |
| Finishing | Immersion Gold | | | | |
| Temperature | Operating: -55~+85°C; Storage: -55~+100°C | | | | |
| Environmental | N/A | | | | |
| Eng. Customized | N/A | | | | |

Note:

1. Above theoretical 3dB and amplitude unbalance
2. VSWR ≤1.2 required for CW
3. Unless otherwise specified, Decimal tolerance: x.±1; .x±0.5; .xx±0.25

## Outline Drawing




Recommended PCB Layout