



# 4-WAY WIDE BAND POWER DIVIDER MPD040080S4M

## FEATURE

- Operating Frequency:0.5~18GHz
- Stable Performance and High Reliability
- High Isolation
- Low Insertion Loss
- Small Phase&Amplitude Errors
- Operating Temperature:-55~+85°C

## APPLICATIONS

- Communication system
- Radar&Warfare system
- Test Equipment



## ELECTRICAL SPECIFICATIONS@25°C:

| Parameter                  | Min | Typical | Max | Units  |
|----------------------------|-----|---------|-----|--------|
| Frequency Range            | 4   |         | 8   | GHz    |
| Isolation                  | 20  |         |     | dB     |
| Insertion Loss             |     |         | 0.8 | dB     |
| VSWR Input                 |     |         | 1.3 | Ratio  |
| Phase Balance              |     |         | 3   | degree |
| Amplitude Balance          |     |         | 0.3 | dB     |
| Power Handling(Forward )   |     |         | 30  | Watt   |
| Power Handling( Reversed ) |     |         | 1   | Watt   |

## ENVIRONMENTAL RATINGS:

| Parameter                          | Min   | Typical | Max   | Units |
|------------------------------------|-------|---------|-------|-------|
| Operating Temperature              | -55   |         | +85   | °C    |
| Non-operating Temperature          | -55   |         | 125   | °C    |
| Relative humidity (non-condensing) |       | 90      |       | %     |
| Altitude (MIL-STD-810F)            | 10000 |         | 30000 | feet  |
| Shock / Vibration (MIL-STD-810F)   |       | Airbone |       |       |

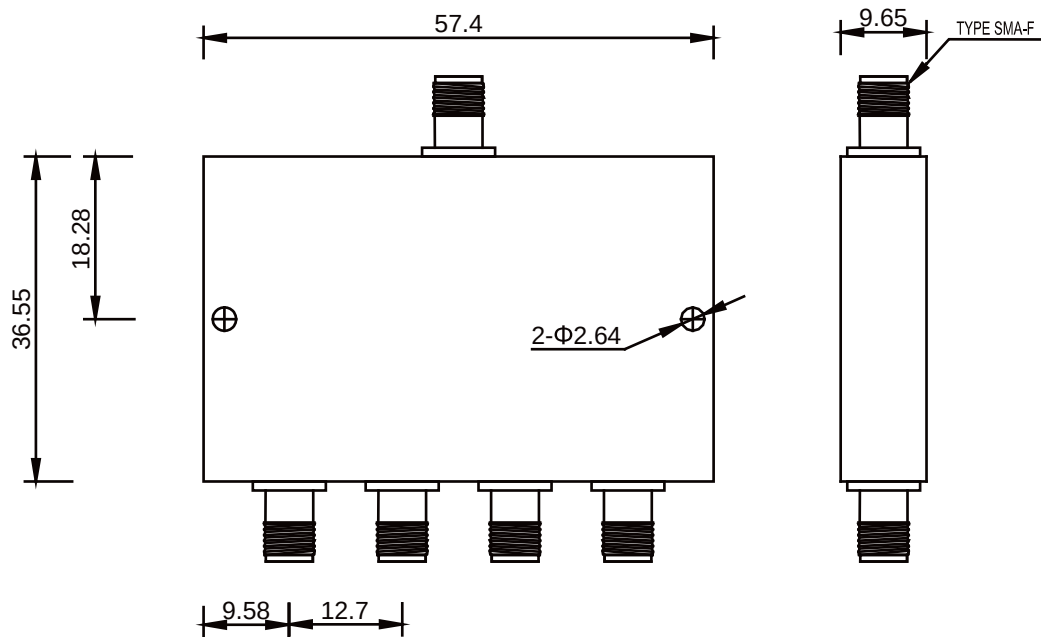
## MECHANICAL SPECIFICATIONS:

| Parameter            | Value           | Limits | Units      |
|----------------------|-----------------|--------|------------|
| Dimensions           | 57.4*36.55*9.65 | Max    | Millimeter |
| Weight               | 50              | Max    | gram       |
| RF Connectors Input  | SMA-F           |        |            |
| RF Connectors output | SMA-F           |        |            |
| Impedance            | 50              |        | ohms       |



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## OUTLINE DRAWING(mm):



4D8

## TEST DATA:

|       | Frequency Range | Insertion Loss | Isolation | VSWR    | Amplitude Balance | Phase Balance |
|-------|-----------------|----------------|-----------|---------|-------------------|---------------|
| Specs | 4~8GHz          | ≤0.8dB         | ≥20dB     | ≤1.30:1 | ≤±0.3dB           | ≤±3°          |
| S/N   |                 |                |           |         |                   |               |
| 1     | 4~8GHz          | 0.62dB         | 24.2dB    | 1.18:1  | 0.18dB            | 1.2°          |