

QMPS90

90°/GHz

Features:
 * Low Insertion Loss
 * High Power
 * High Reliable

Applications:
 * Laboratory Test
 * Transmitter
 * Instrumentation
 * Wireless

Electrical

Frequency: DC~8GHz
 Impedance: 50Ω
 Average Power: 100W
 Peak Power*¹: 5KW

[1] Pulse width: 5us, duty cycle: 2%.

Frequency (GHz)	VSWR (max.)	Insertion Loss (dB, max.)	Phase ² Adjustment ³ (°)
DC~1	1.2	0.5	0~90
DC~2	1.3	0.8	0~180
DC~3	1.4	1.2	0~270
DC~4	1.4	1.2	0~360
DC~6	1.5	1.4	0~540
DC~8	1.5	1.5	0~720

[2] Phase Reading:

Analog : Phase (°) = actual reading * 2.4 * frequency (GHz), adjustment range: 0~37.5.

Digital : Phase (°) = actual reading * 0.024 * frequency (GHz), adjustment range: 0~3750.

[3] Phase shift varies linearly corresponding to the frequency. For example, if the maximum phase shift is 360°@6GHz, the maximum phase shift is 180°@3GHz.

Mechanical

Size⁴: 236*76*30.5mm
 9.291*2.992*1.201in
 Size⁵: 241*76*50.5mm
 9.488*2.992*1.988in

Weight: 550g

RF Connectors: N Female, SMA Female

Outer Conductor: Nickle Plated Brass

Inner Conductor: Gold Plated Beryllium Bronze

Housing Material: Aluminum

[4] Analog.

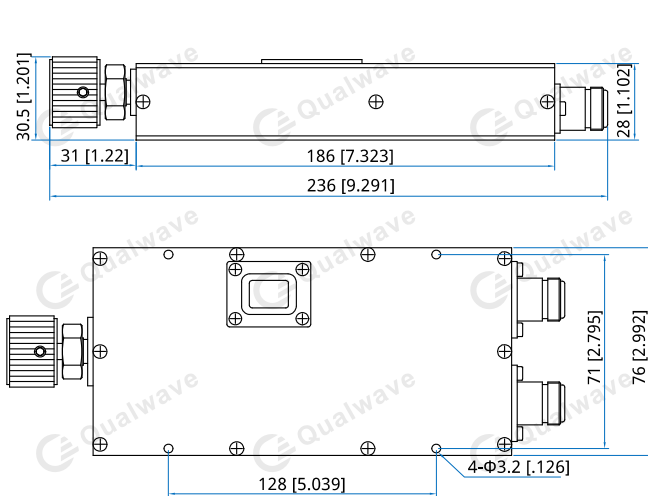
[5] Digital.

Environmental

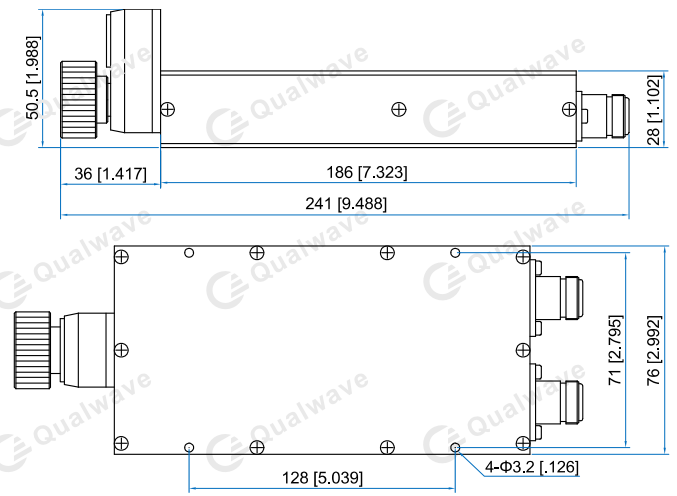
Operating Temperature: -10~+50°C

Non-operating Temperature: -40~+70°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: $\pm 0.2\text{mm}$ [$\pm 0.008\text{in}$]

How To Order

QMPS90-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Display

Examples:

To order a digital phase shifter, DC~4GHz, N female to N female, specify QMPS90-4-N-D.

Connector naming rules:

S - SMA

N - N

Display naming rules:

A - Analog (Outline A)

D - Digital (Outline B)

Customization is available upon request.