

Q3XP-10000R-SMA

SMA 3dB QUADRATURE (90°) HYBRID COUPLER

REV 1.0.0



APPLICATIONS

- Signal Splitting/Combining
- Antenna beam-forming networks
- Balanced Amplifier Circuit
- I/Q Modulators/Demodulators
- Analog Phase Shifters
- Microwave Mixers
- Dividers/Combiners

FEATURES

- Low insertion loss
- Low amplitude balance
- Low VSWR
- Compact and low profile
- Rugged Housing
- High performance SMA connectors

SPECIFICATIONS

TABLE 1: TYPICAL SPECIFICATIONS*

FREQ (MHz)	POWER (W)	PART NUMBER	INSERTION LOSS (dB)	AMPLITUDE BALANCE (dB)	ISOLATION (dB)	VSWR	PHASE DIFFERENCE	OPERATING TEMP (°C)
2000-18000	20	Q3XP-10000R-SMA	≤1.2dB	±1	≥20dB	≤1.5:1	90 deg	-40 to +70

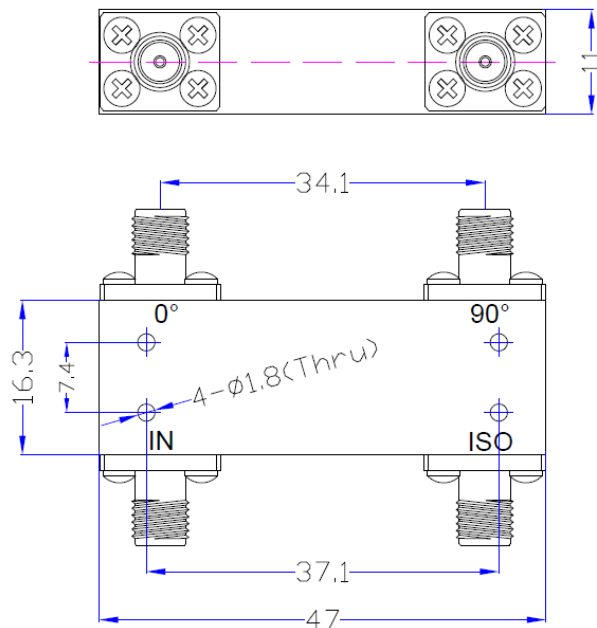
* Units tested with small signal at 25°C. Specifications subject to change without notice.

† Specifications guaranteed when operated in a 50Ω system

MECHANICAL

* Dimensions are millimeters

- Surface Finish: Black Paint)
- Connectors: SMA

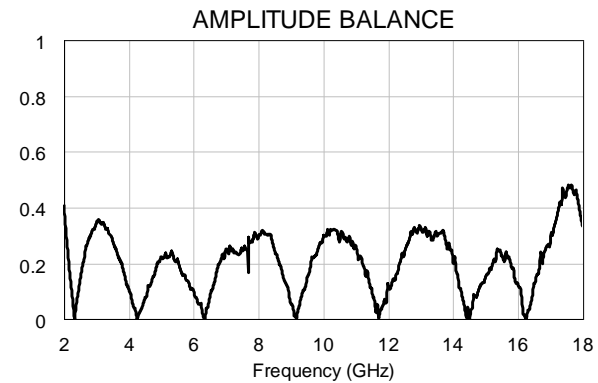
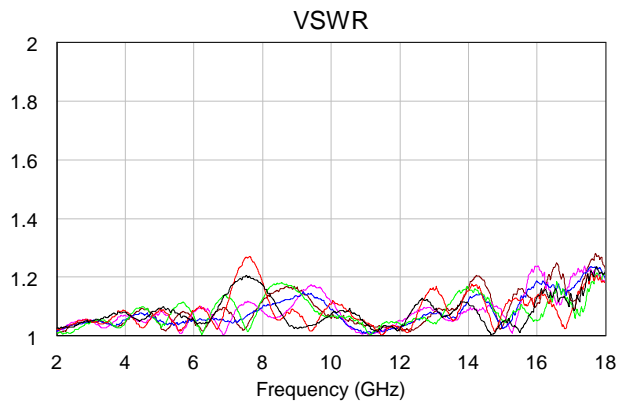
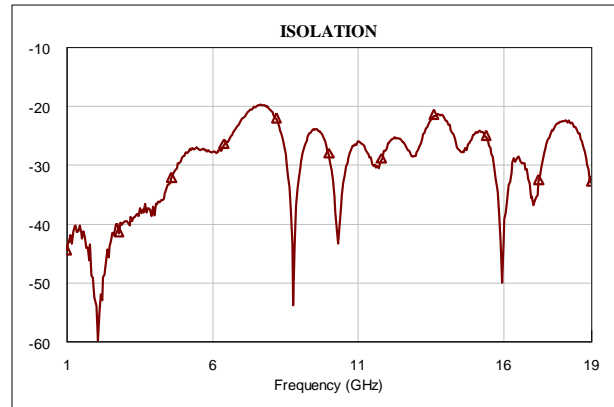
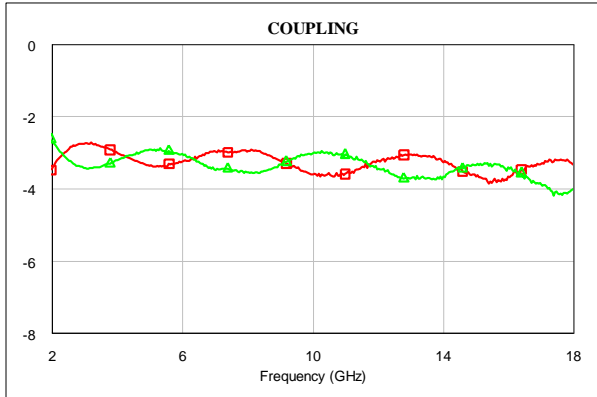


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TYPICAL PERFORMANCE



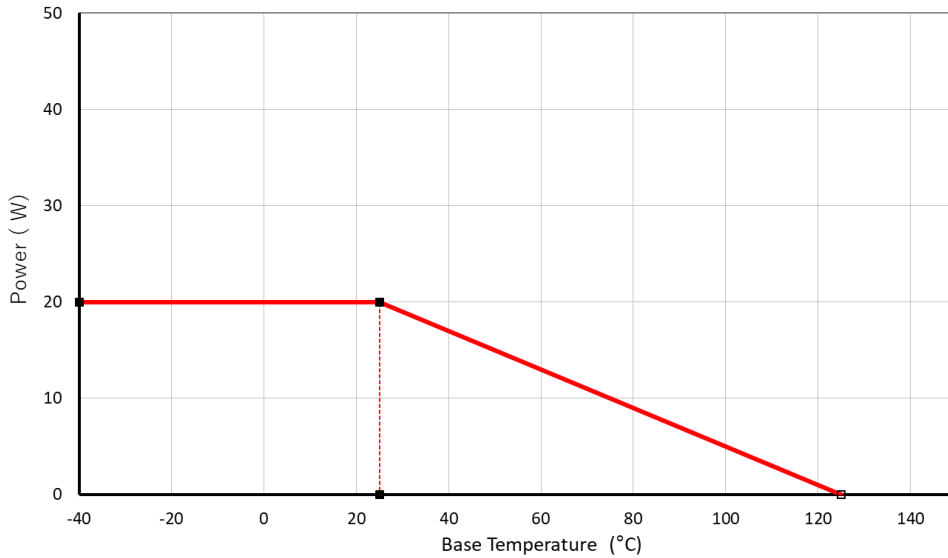
POWER DERATING

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POWER DERATING



ORDERING INFO

Q 3 X P - 1 0 0 0 0 R S M A

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②

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①

PRODUCT CODE

QUADRATURE 3dB 90°
HYBRID

②

FREQUENCY

MHz

③

Connector type

SMA = SMA



The Q3XP-10000R-SMA is a lead free, RoHS compliant product.