

Q3XG-1500R-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
- High isolation
- Low amplitude balance
- Low VSWR
- Compact and low profile
- Rugged Aluminum Housing
- High performance SMA connector

SPECIFICATIONS

TABLE 1: TYPICAL SPECIFICATIONS*

FREQ (MHz)	POWER (W)	PART NUMBER	INSERTION LOSS (dB)	AMPLITUDE BALANCE (dB)	ISOLATION (dB)	VSWR	PHASE BALANCE	OPERATING TEMP (°C)	ΘJC (°C/W)
1000-2000	65	Q3XG-1500R-SMA	0.2	± 0.5	30	1.2	± 3°	-40 to +85	37

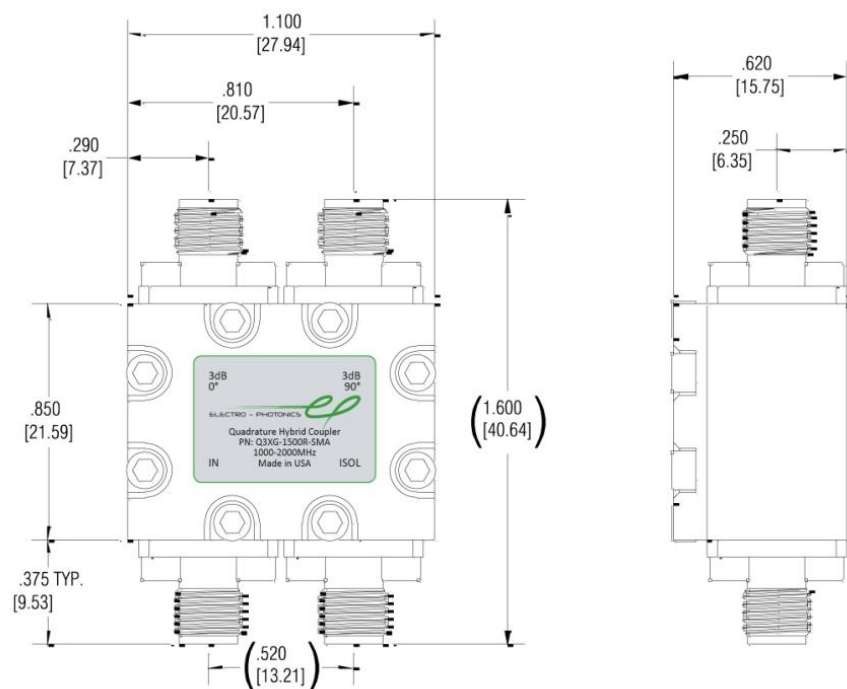
* Units tested with small signal at 25°C. Specifications subject to change without notice.

† Specifications guaranteed when operated in a 50Ω system

MECHANICAL

* Dimensions are inches [millimeters].

- Housing: Aluminum
- Plating: Nickel
- Connectors: 18GHz SMA

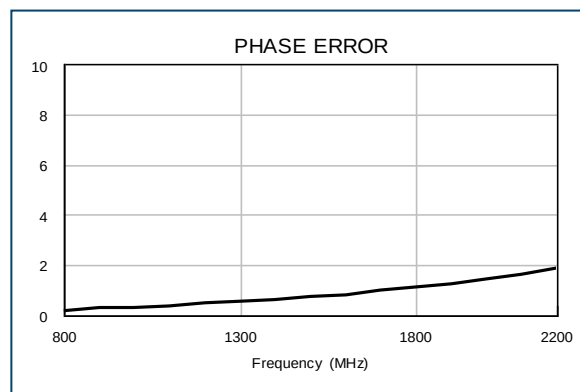
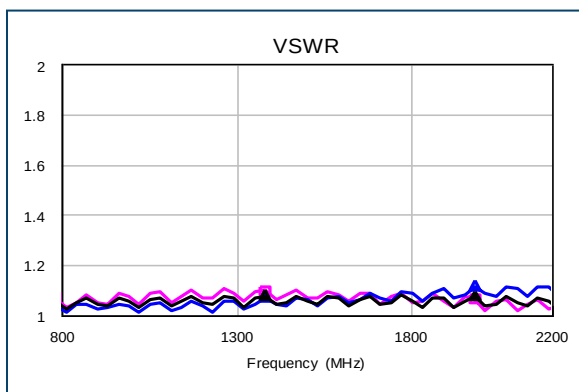
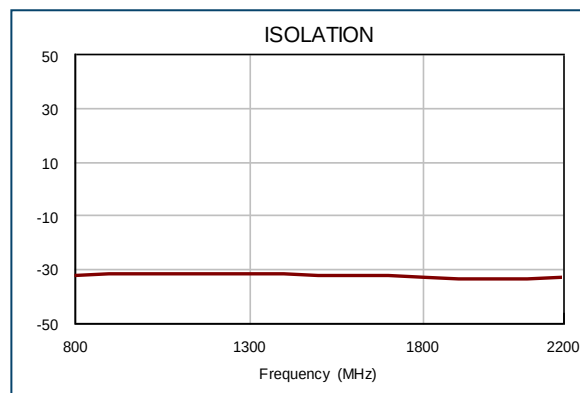
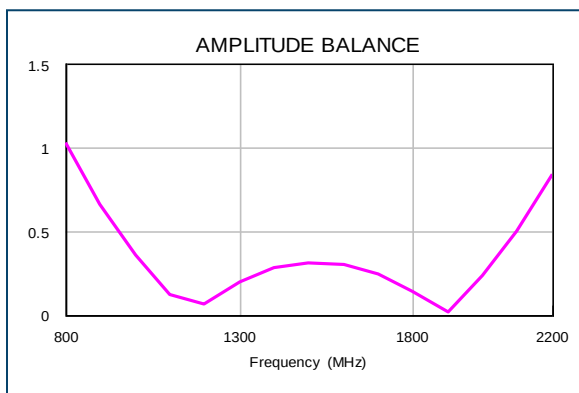
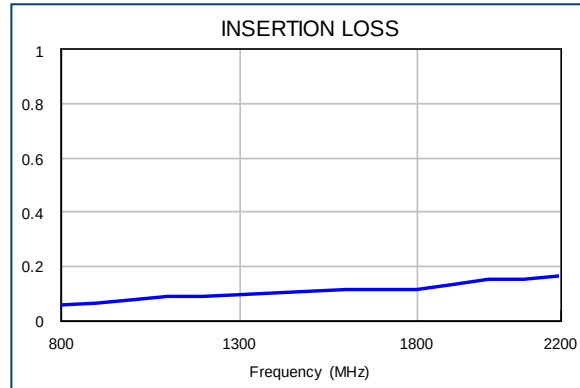
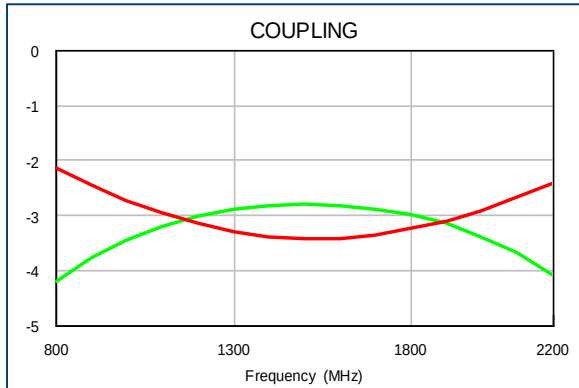


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TYPICAL PERFORMANCE



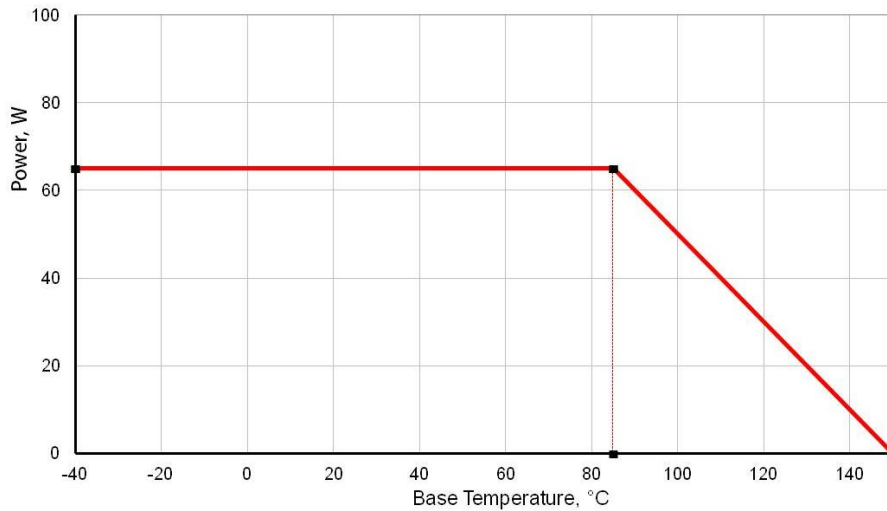
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POWER DERATING

POWER DERATING



ORDERING INFO

Q 3 X G - 1 5 0 0 R S M A

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③

①

PRODUCT CODE

QUADRATURE 3dB 90°
HYBRID

②

FREQUENCY

MHz
(SEE TABLE 1)

④

Connector type

SMA = SMA



The Q3XG-1500R-SMA is a lead free, RoHS compliant product.