

Q06HG-900R

SURFACE MOUNT 6dB DIRECTIONAL COUPLER

REV 0.0.0



APPLICATIONS

- Signal sampling
- Signal injection
- Source leveling
- Signal isolation
- Power monitoring
- Reflection measurements

FEATURES

- Broadband 600 -1200 MHz
- High power
- Very low loss
- High directivity
- Flat coupling
- Dimensionally stable materials for best CTE match
- Lead-Free, RoHS compliant

SPECIFICATIONS

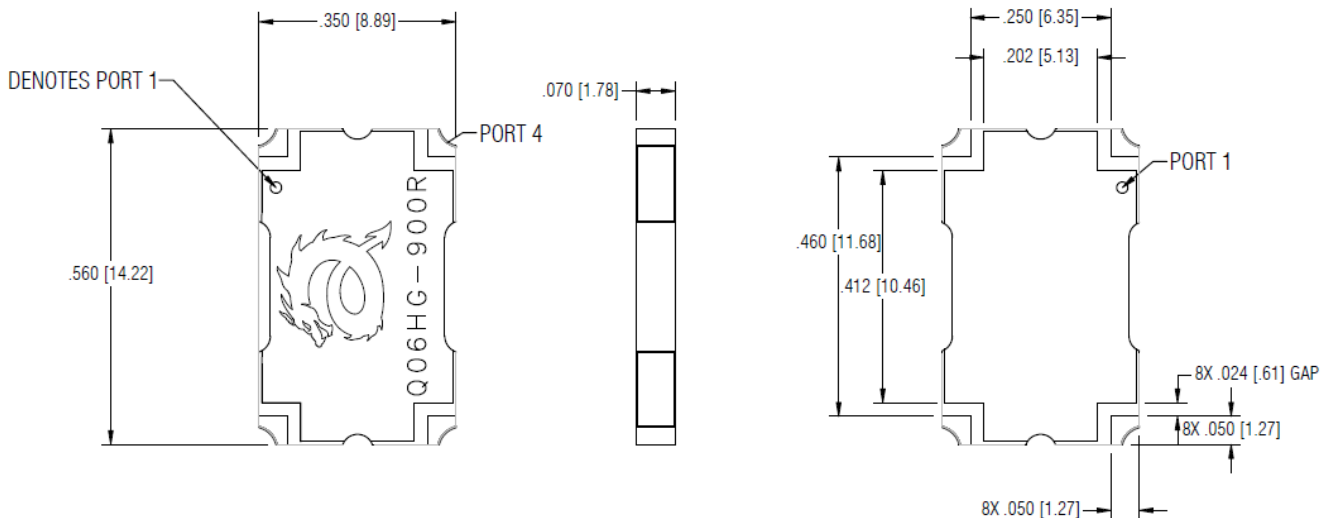
TABLE 1: TYPICAL SPECIFICATIONS*

FREQ (MHz)	POWER (W)	PART NUMBER	INSERTION LOSS (dB)	MEAN COUPLING (dB)	DIRECTIVITY (dB)	VSWR	OPERATING TEMP (°C)
600-1200	175	Q06HG-900R	0.15	6.0 ± 0.75	23	1.2	-55 to +95

* Units tested with small signal using Electro-Photonics test board at 25°C. Specifications subject to change without notice.

† Please consult sales (sales@electro-photonics.com) for custom footprints, sizes, and/or specifications.

MECHANICAL OUTLINE

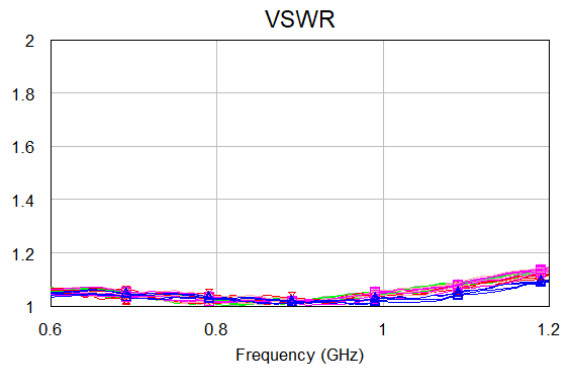
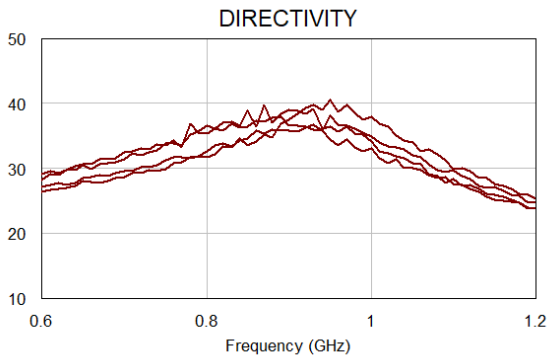
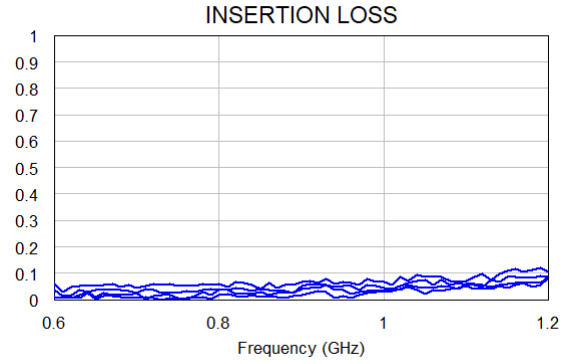
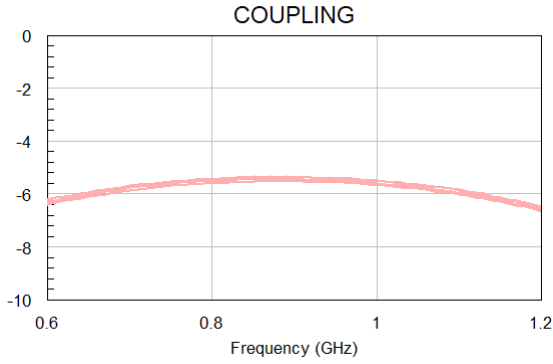


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TYPICAL PERFORMANCE



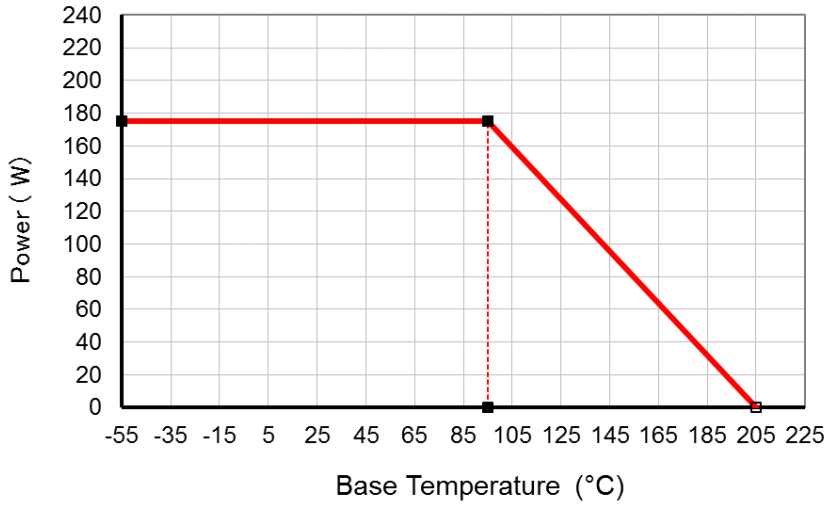
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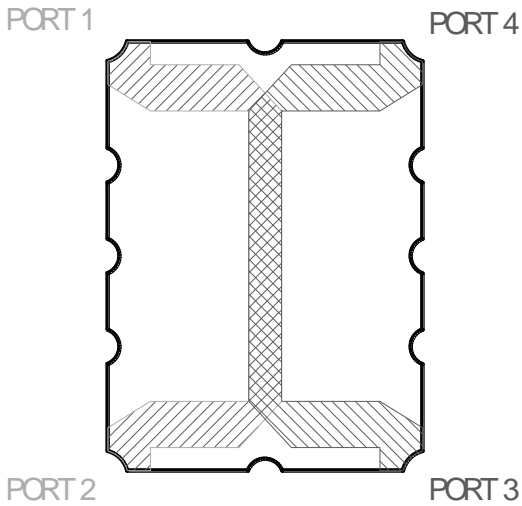
REV 0.0.0

POWER DERATING

POWER DERATING



PIN CONFIGURATION



PORT 1	PORT 2	PORT 3	PORT 4
IN	DIRECT	ISOLATED	COUPLED
DIRECT	IN	COUPLED	ISOLATED
ISOLATED	COUPLED	IN	DIRECT
COUPLED	ISOLATED	DIRECT	IN

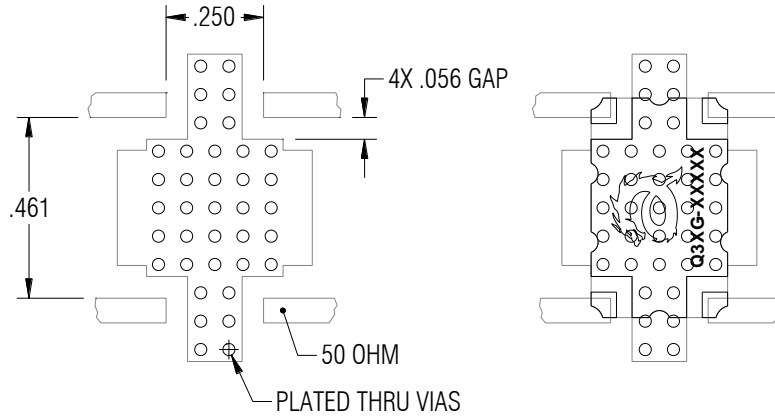
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MOUNTING FOOTPRINT

Electro-Photonics test board is designed using 30 mil RO4350B material. Land pattern design must be taken into consideration when using a different thickness and/or dielectric constant in order to achieve optimal performance.



ORDERING INFO*

* Consult sales (sales@electro-photonics.com) for custom configuration, size, footprint, and/or specifications. Tape & Reel available upon request (with minimum order quantities).

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① ② ③ ④

① PRODUCT CODE	② SIZE	③ FREQUENCY	④ PLATING
6.0dB DIRECTIONAL COUPLER	A = .250 X .200 K = .283 X .197 B = .560 X .200 G = .560 X .350 D = .650 X .480 E = 1.00 X .500	MHz (SEE TABLE 1)	R = IMMERSION TIN E = ENIG (Electroless nickel immersion gold)



The Q06HG-900R is lead free, RoHS compliant product.