SURFACE MOUNT 7.5dB DIRECTIONAL COUPLER



REV 1.0.0



APPLICATIONS

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

FEATURES

- Broadband 695 -1000 MHz
- High power
- Very low loss
- High directivity
- Flat coupling
- Dimensionally stable materials for best CTE match
- Lead-Free, RoHS compliant

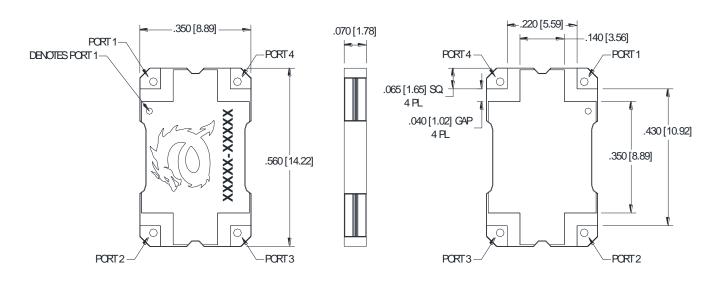
SPECIFICATIONS

TABLE 1: TYPICAL SPECIFICATIONS*											
FREQ (MHz)	POWER (W)	PART NUMBER	INSERTION LOSS (dB)	MEAN COUPLING (dB)	FREQUENCY SENSITIVITY (dB)	DIRECTIVITY (dB)	VSWR	OPERATING TEMP (°C)	OJC (°C/W)		
695-1000	175	Q7P5HG-900R	0.15	7.5 ± 0.75	± .75	24	1.15	-55 to +95	11.48		

* 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

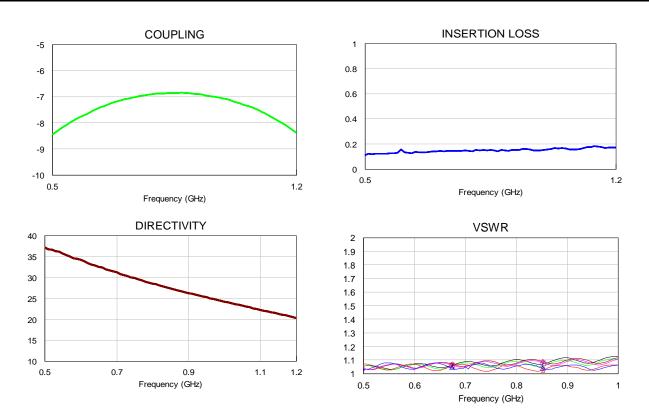


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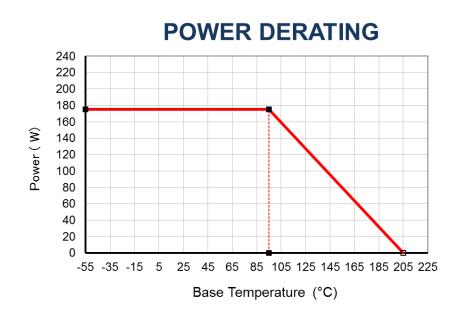
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ELECTRO - PHOTONICS

TYPICAL PERFORMANCE



POWER DERATING



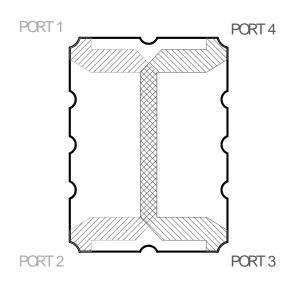
COUPLERS

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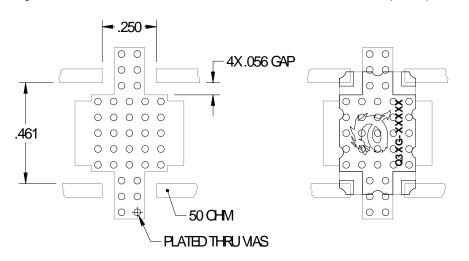
PIN CONFIGURATION



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

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.





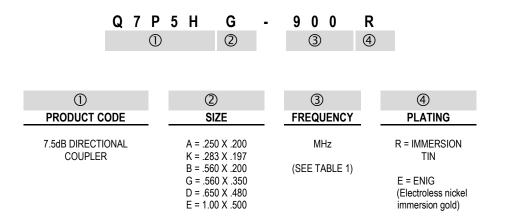
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ORDERING INFO*

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





The Q7P5HG-900R is lead free, RoHS compliant product.

