SURFACE MOUNT 20dB DIRECTIONAL COUPLER



REV 1.0.0

APPLICATIONS

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

FEATURES

- 1800 2000 MHz
- High power
- Very low loss
- High directivity
- Flat coupling
- Compact and low profile
- Dimensionally stable materials for best CTE match
- Lead-Free, RoHS compliant

SPECIFICATIONS

TABLE 1: TYPICAL SPECIFICATIONS*

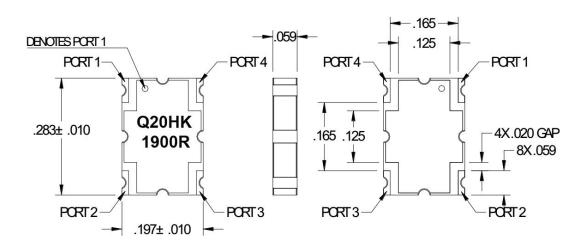
FREQ (MHz)	POWER (W)	PART NUMBER	INSERTION LOSS (dB)	COUPLING (dB)	DIRECTIVITY (dB)	VSWR	OPERATING TEMP (°C)	OJC (°C/W)
1800-2000	80	Q20HK-1900R	0.3	20 ± 0.5	20	1.30	-55 to +95	

* 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

* Dimensions are inches.





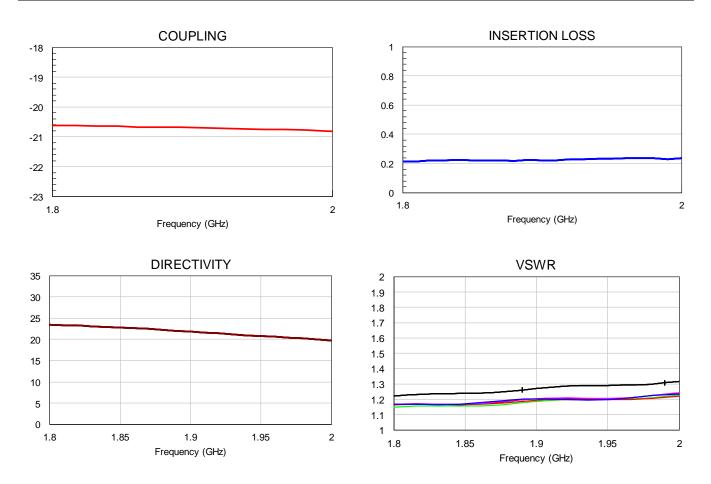


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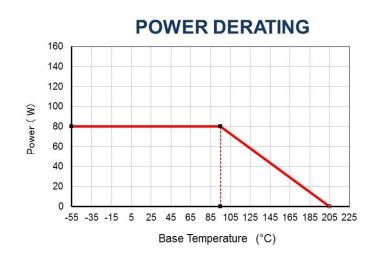
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TYPICAL PERFORMANCE



POWER DERATING



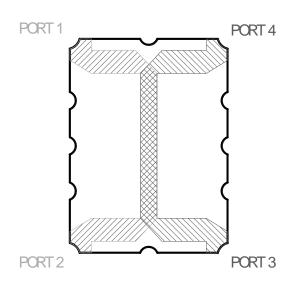
DIRECTIONAL COUPLERS

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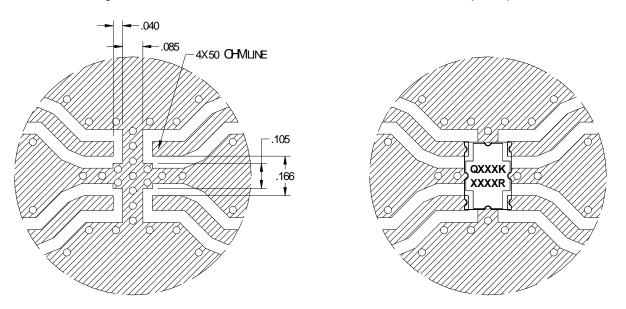
PIN CONFIGURATION



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

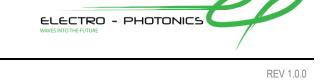
Electro-Photonics test board is designed using 30 mil RO4350B material. Land pattern design must be taken into consideration when using a different thickness and/or dielectric constant in order to achieve optimal performance.





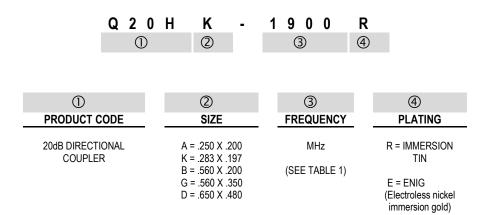


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ORDERING INFO*

* 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 Q20HK-1900R is lead free, RoHS compliant product.

