

# Q3HF-16500

QUADRATURE (90°) HYBRID COUPLER

REV 1.0.0



## APPLICATIONS

- Signal Splitting/Combining
- Balanced Amplifier Circuit
- I/Q Modulators/Demodulators
- Analog Phase Shifters
- Dividers/Combiners

## FEATURES

- Low insertion loss
- High isolation
- Low amplitude balance
- Low VSWR
- Compact and low profile

## SPECIFICATIONS

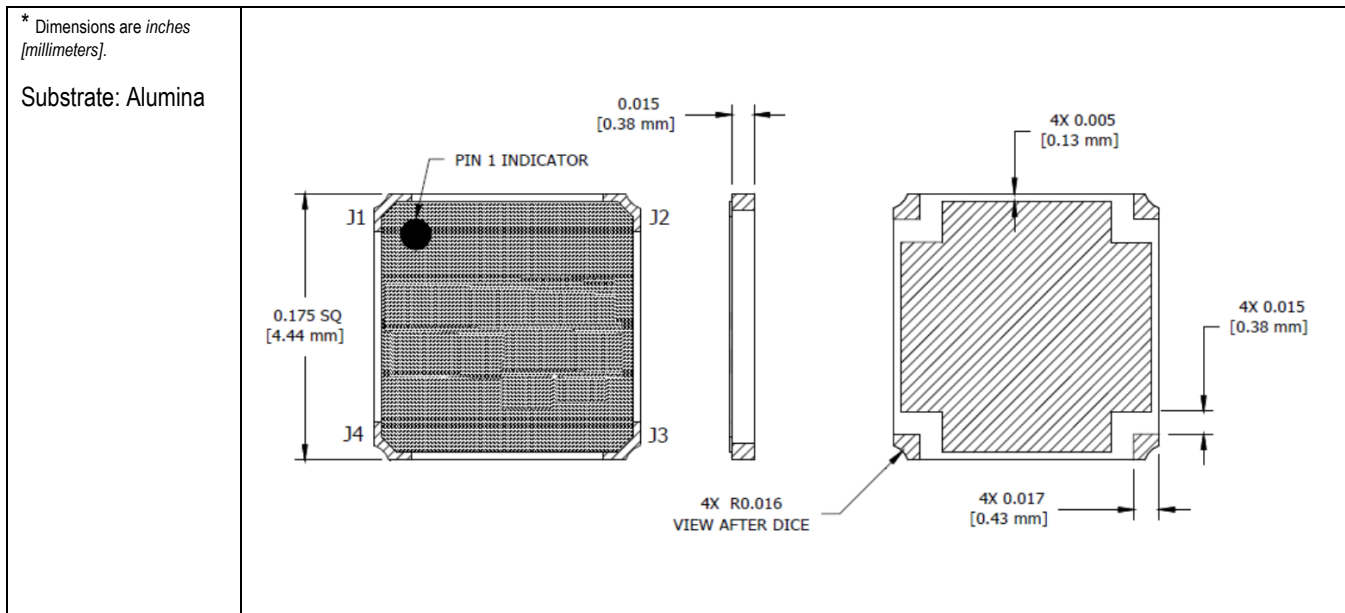
TABLE 1: TYPICAL SPECIFICATIONS\*

FREQ (MHz)	POWER (W)	PART NUMBER	INSERTION LOSS (dB)	AMPLITUDE BALANCE (dB)	ISOLATION (dB)	VSWR	PHASE BALANCE	OPERATING TEMP (°C)	ΘJC (°C/W)
16000-17000	50	Q3HF-16500	1	± 0.6	16	1.6	± 10°	-55 to +95	

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

† Specifications guaranteed when operated in a 50Ω system

## MECHANICAL

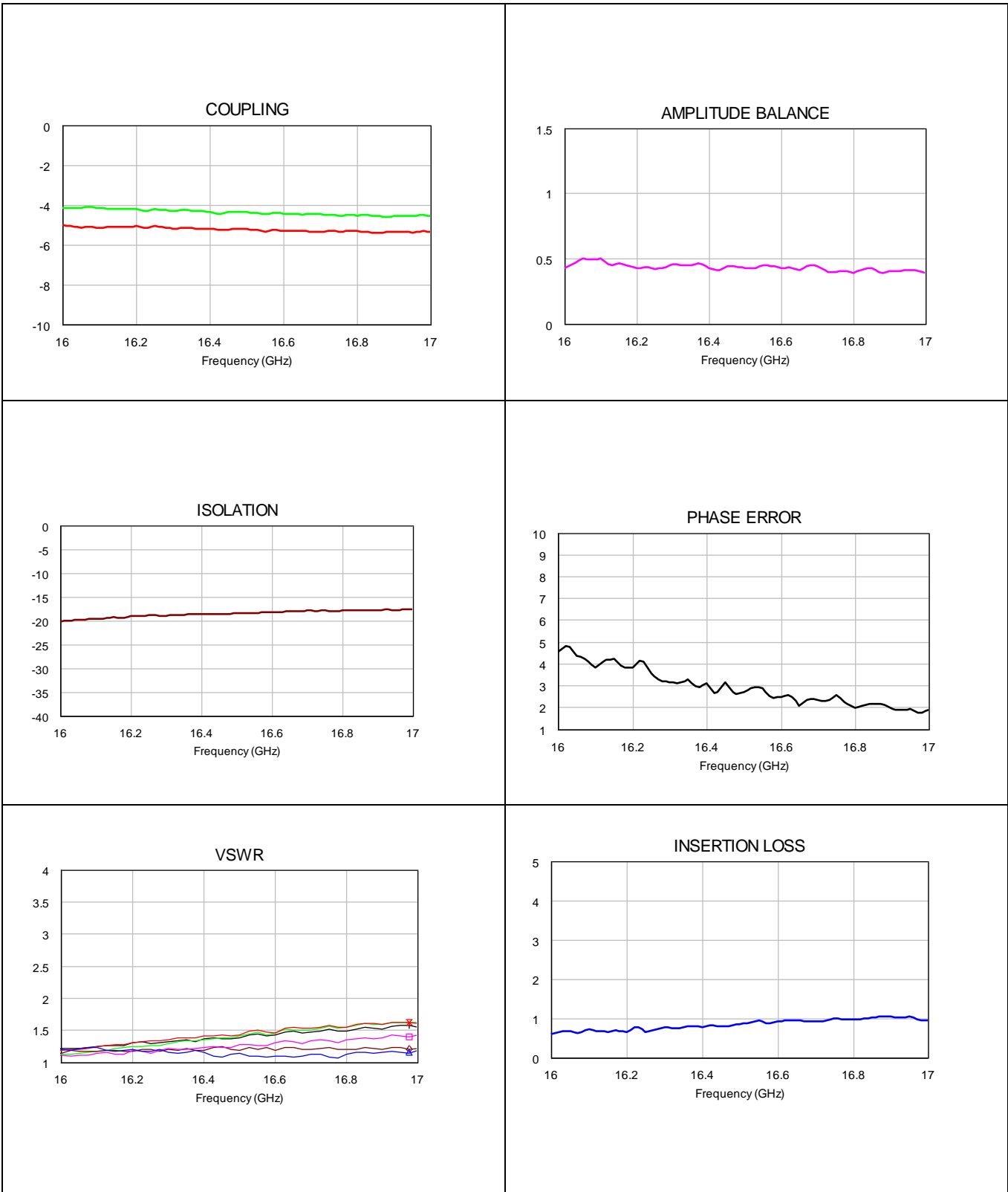


## PERFORMANCE

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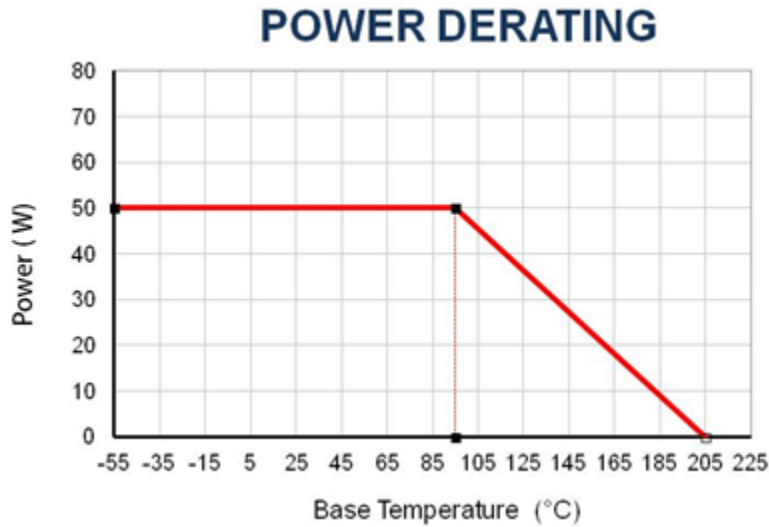


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## POWER DERATING



## PIN CONFIGURATION

Port	J1	J2	J3	J4
J1	-	-90°	-180°	Iso
J2	-90°	-	Iso	-180°
J3	-180°	Iso	-	-90°
J4	Iso	-180°	-90°	-

## PACKAGING

Bulk, waffle packs, or tape & reel

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## ORDERING INFO

<b>Q 3 H F</b> ①	-	<b>1 6 5 0 0</b> ②	-	<b>A</b> ③
① <b>PRODUCT CODE</b>		② <b>FREQUENCY</b>		③ <b>Material</b>
QUADRATURE 90° HYBRID		MHz		Alumina



The Q3HF-16500 is a lead free, RoHS compliant product.