

# BROADBAND DUAL-RIDGE HORN ANTENNA

800 MHz TO 12.8 GHz

DRHA800

## KEY FEATURES

- Very wide bandwidth from 800 MHz to 12.8 GHz with directional radiation patterns
- VSWR typically below 2.5:1 with gain up to 13 dBi
- Durable all-metal design (aluminum)
- Low weight and compact size
- Professionally designed and hand-tested by engineers in the United States

## DESIGN SPECIFICATIONS

- Design: Dual-Ridge Horn
- Operating Frequency: 800 MHz to 12.8 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Connector: SMA Female
- Construction: Solid Aluminum
- Mounting: #1/4-20 screw hole (see diagram on page 5)
- Length: 4.4 in [112 mm]
- Width: 5.1 in [130 mm]
- Height: 5.8 in [147 mm]
- Weight: 20.5 oz [580 g]

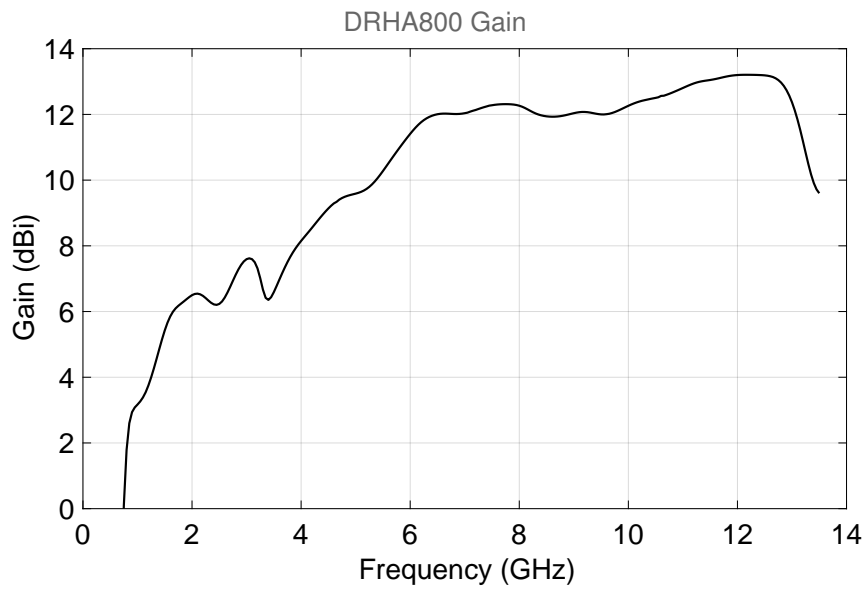
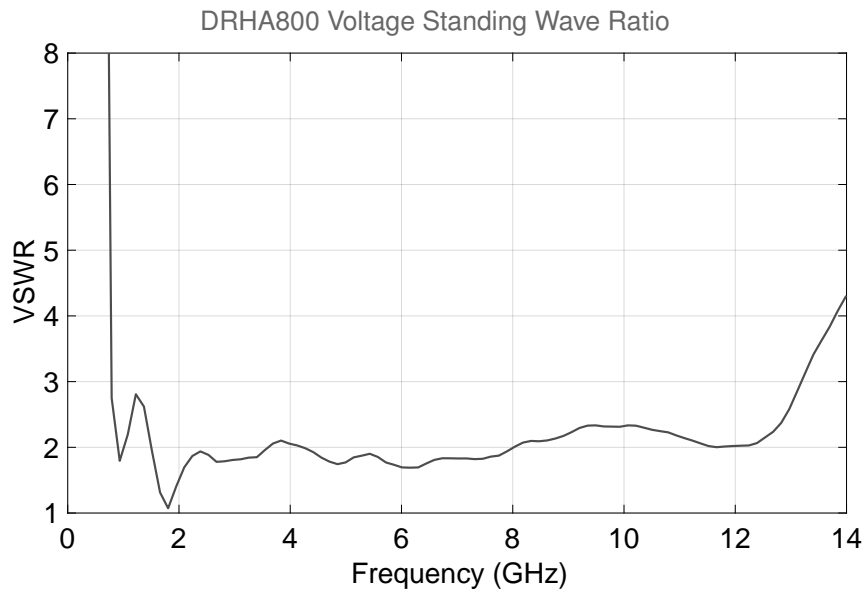


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## PERFORMANCE SPECIFICATIONS

Parameter		Frequency	Min.	Typ.	Max.	Unit
VSWR		800 MHz – 4.0 GHz	1.4	2.5	3.3	–
		4.0 GHz – 8.0 GHz	1.1	2.0	2.8	
		8.0 GHz – 12.8 GHz	1.5	2.2	3.4	
Gain		800 MHz – 4.0 GHz	2.0	6.5	8.0	dBi
		4.0 GHz – 9.0 GHz	8.0	11.0	13.0	
		9.0 GHz – 12.8 GHz	10.5	12.5	13.5	
HPBW	E-Plane	800 MHz – 12.8 GHz	30	60	105	deg.
	H-Plane		20	45	160	
Input Power		800 MHz – 12.8 GHz	–	–	10	W
Impedance		–	50			$\Omega$
Connector		–	SMA (female)			–

### TYPICAL PERFORMANCE

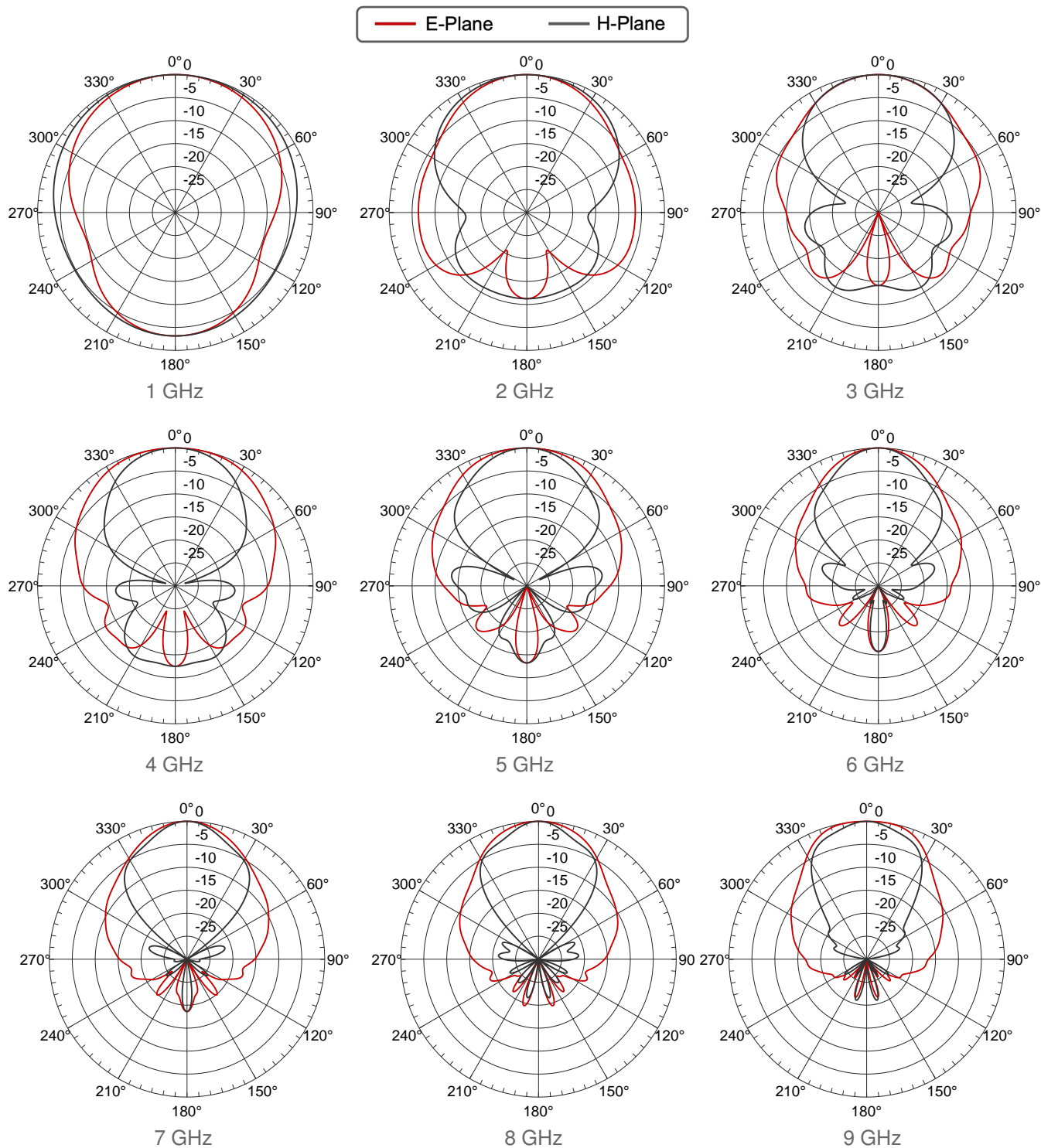


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### TYPICAL PERFORMANCE (CONT.)

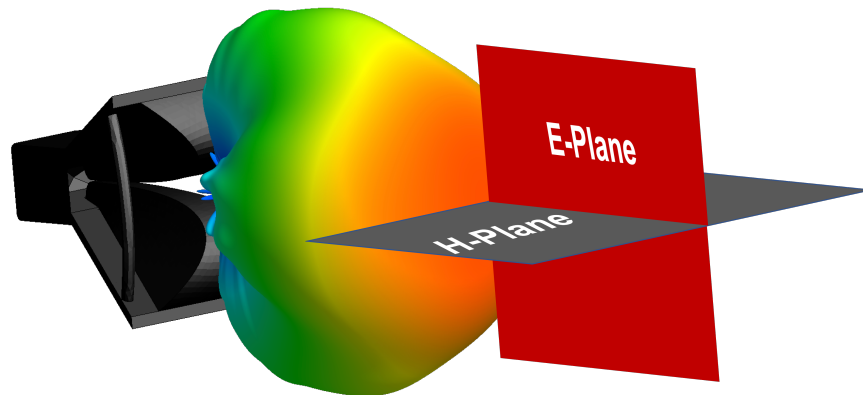
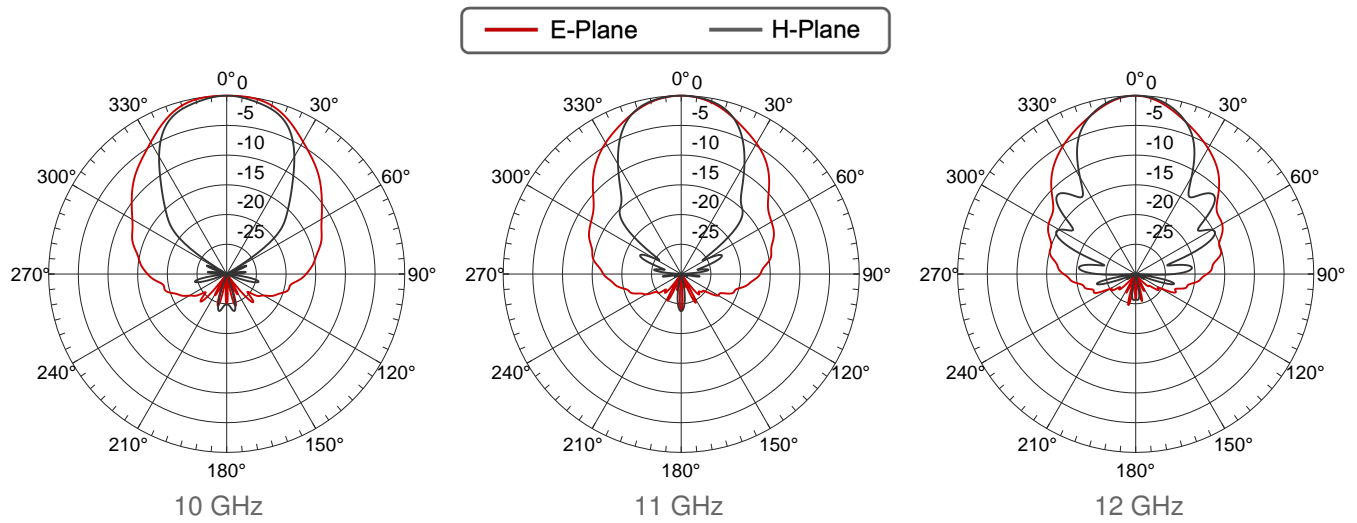


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### TYPICAL PERFORMANCE (CONT.)

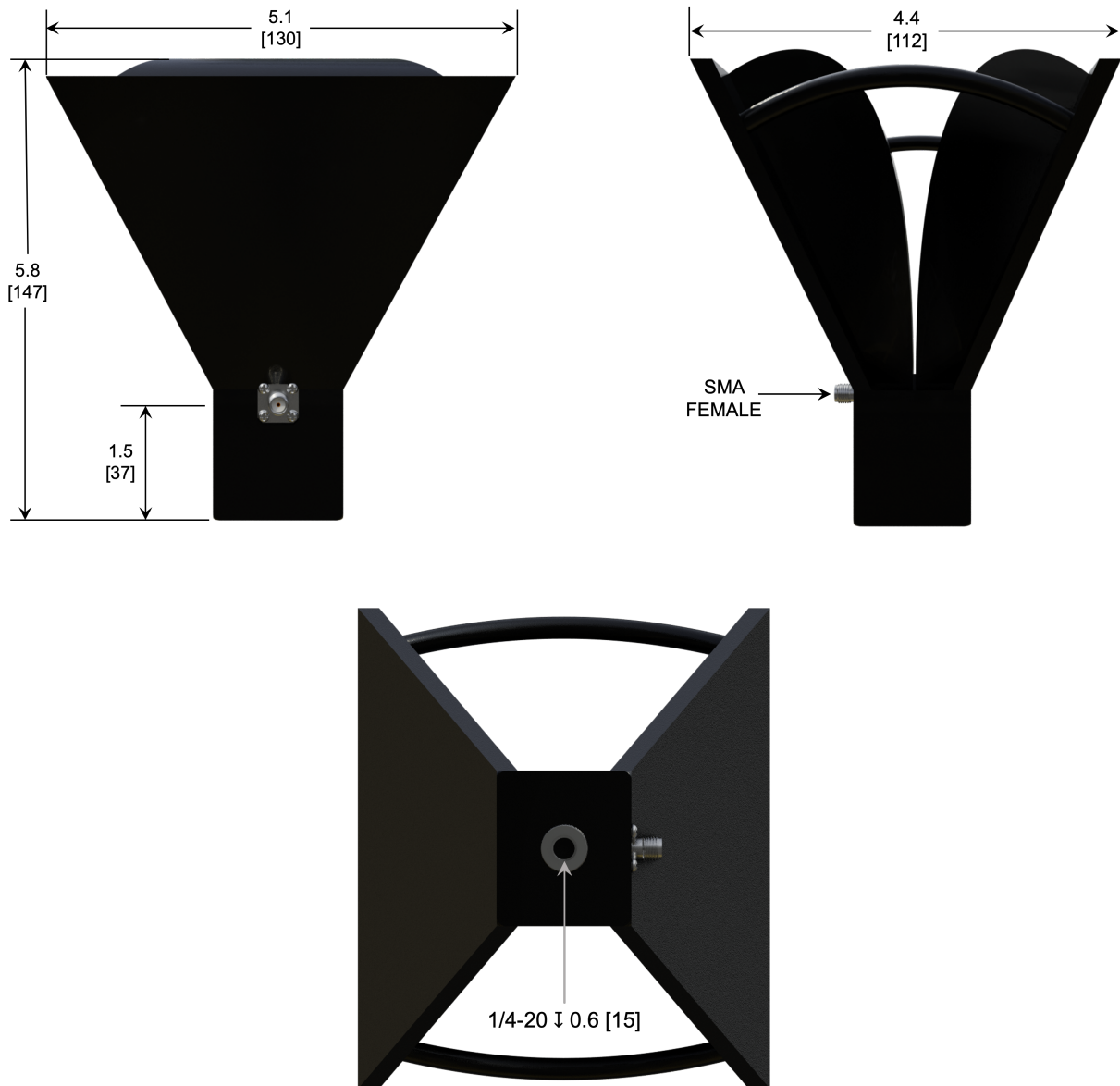


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### CAD DRAWING



#### NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL
2. DIMENSIONS ARE IN INCHES [mm]
3. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME