

## 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

### 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]



DRHA800

### PERFORMANCE DATA

Parameter	Frequency	Min.	Typ.	Max.	Unit	
VSWR	800 MHz – 4.0 GHz	1.4	2.5	3.2	—	
	4.0 GHz – 8.0 GHz	1.1	2.0	2.8		
	8.0 GHz – 12.8 GHz	1.5	2.2	3.0		
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	800 MHz – 12.8 GHz	E-Plane	30	60	105	deg.
		H-Plane	20	45	160	
Input Power	800 MHz – 12.8 GHz	—	—	10	W	
Impedance	—	50			$\Omega$	
Connector	—	SMA (female)			—	

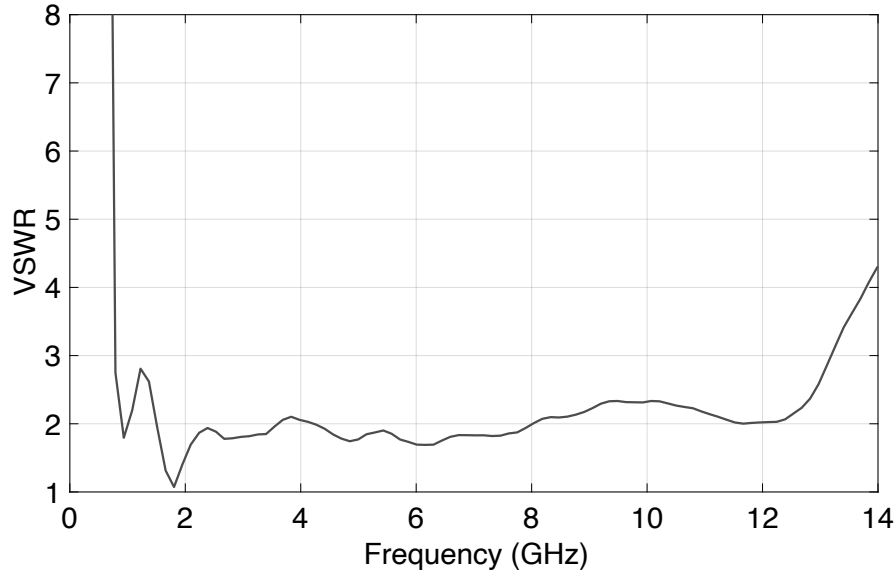
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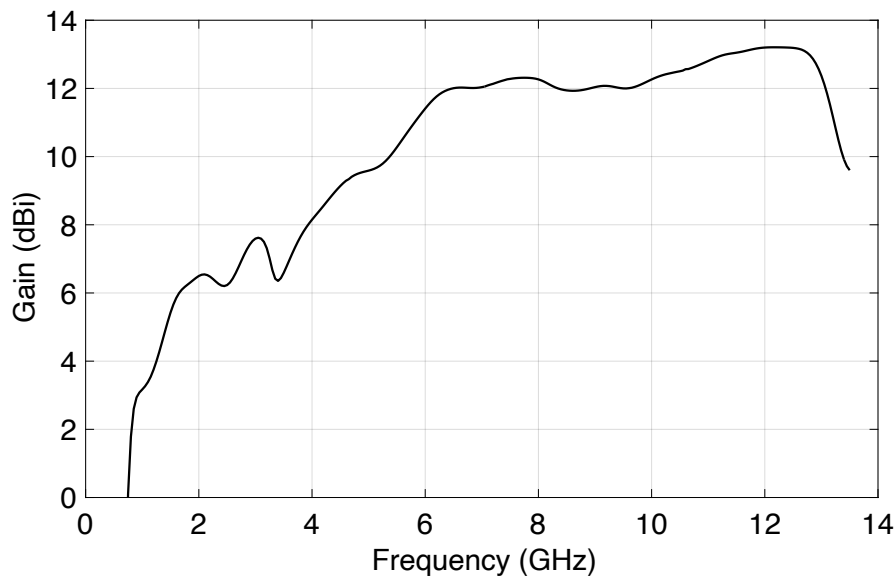
DRHA800

**PERFORMANCE DATA (CONT.)**

DRHA800 Voltage Standing Wave Ratio



DRHA800 Gain

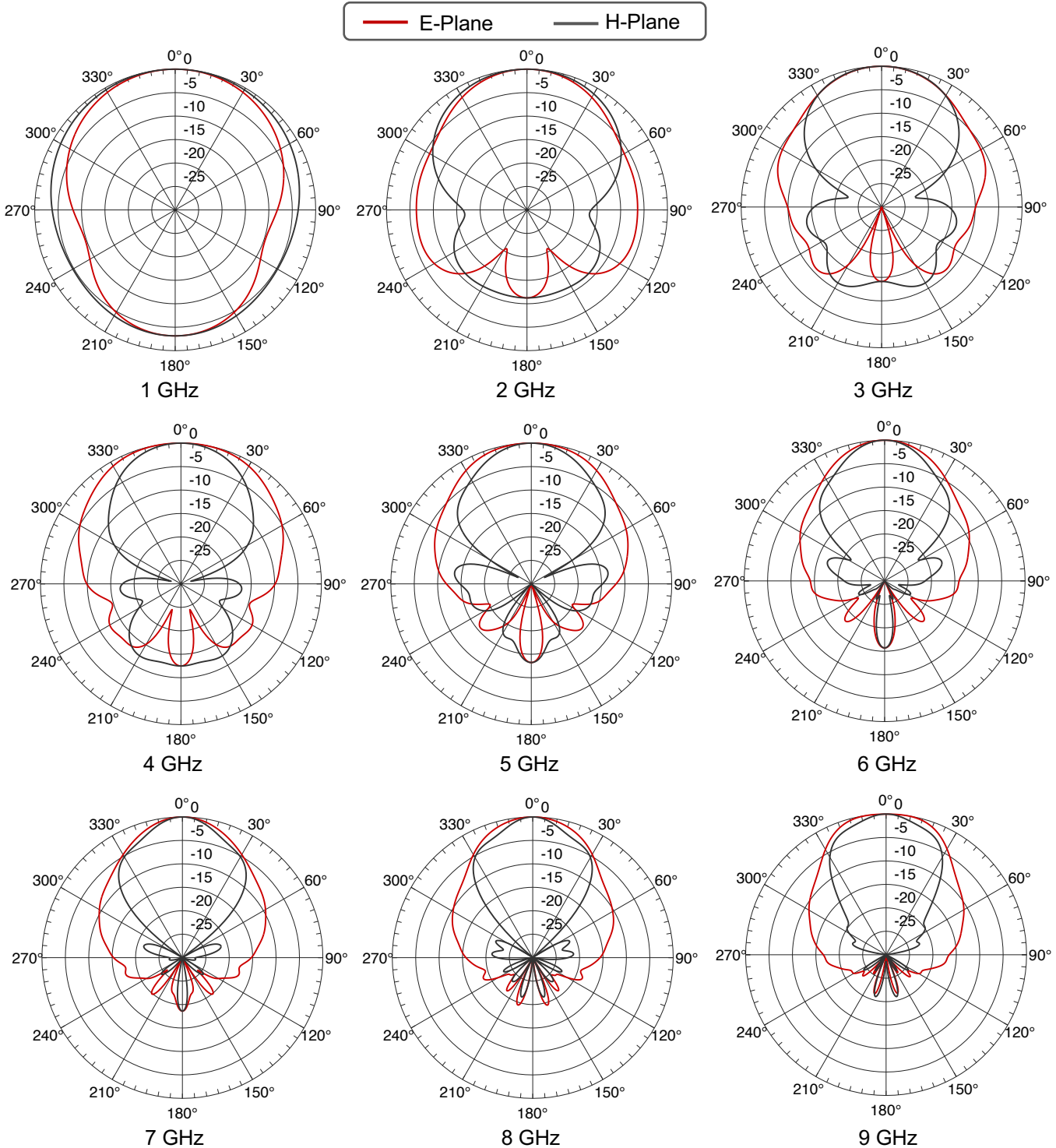


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PERFORMANCE DATA (CONT.)



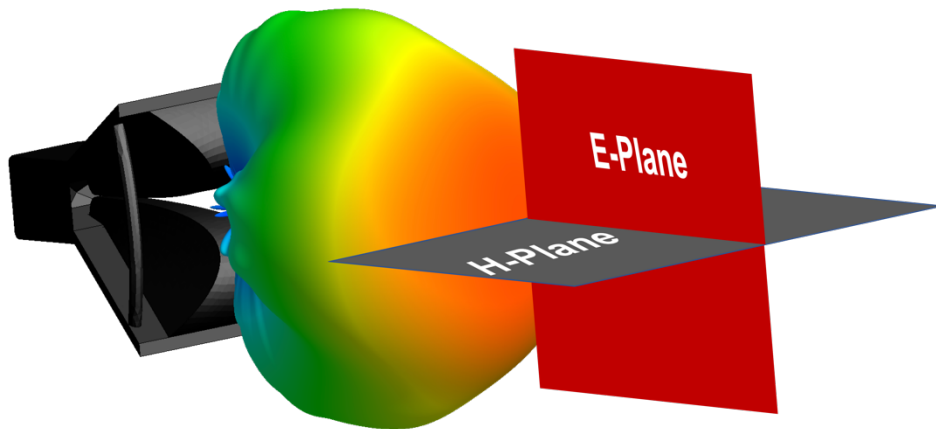
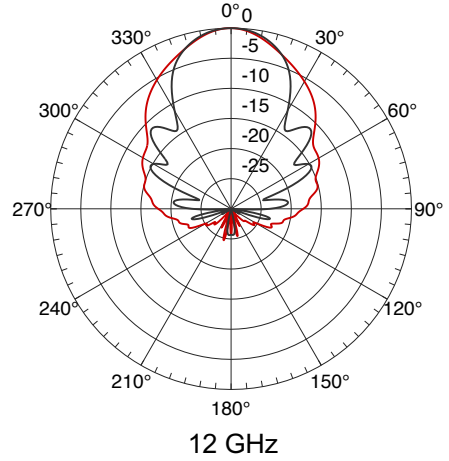
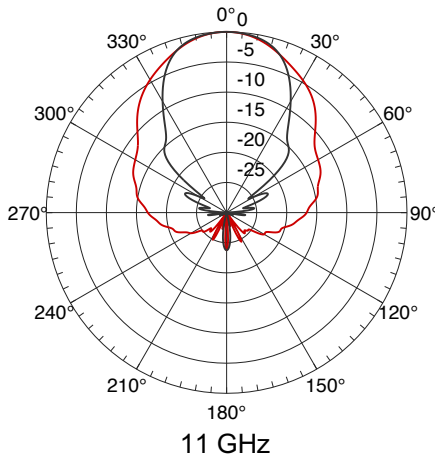
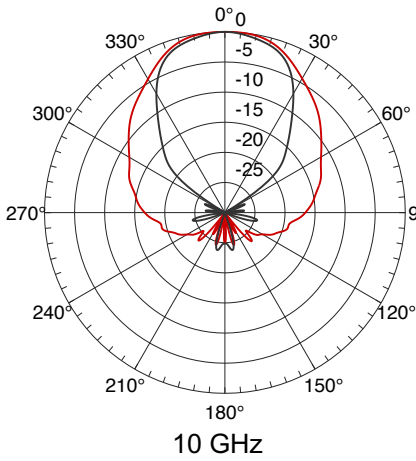
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**PERFORMANCE DATA (CONT.)**

— E-Plane    — H-Plane

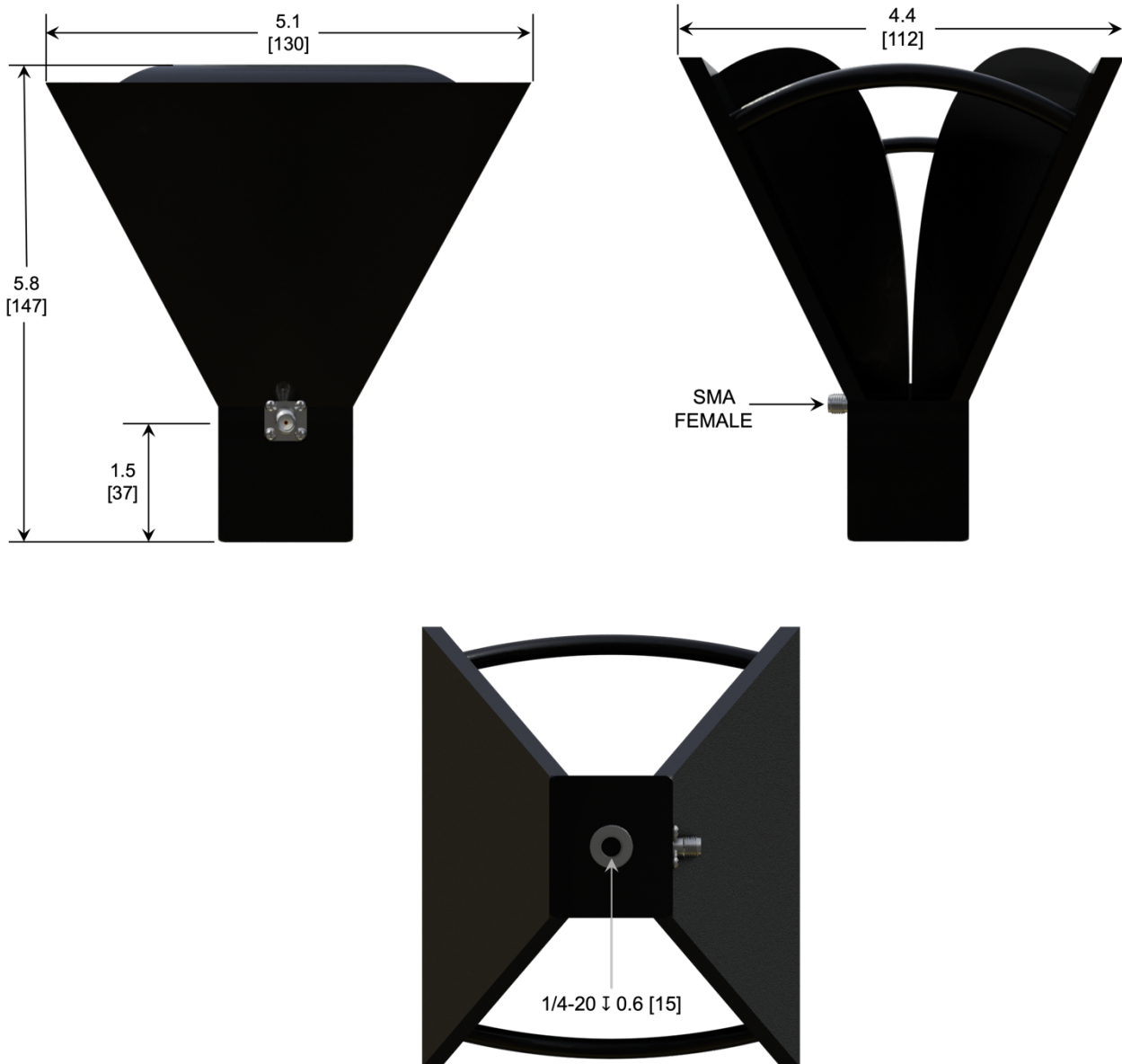


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CAD DRAWING



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