

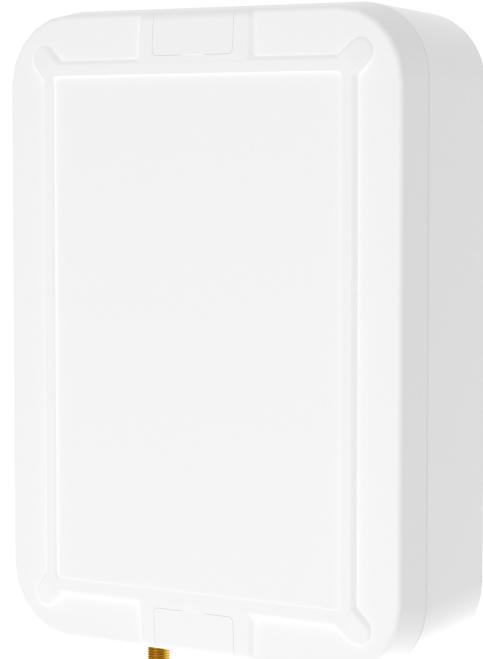
MICROSTRIP PATCH ANTENNA ARRAY

8.0 GHz TO 15.0 GHz

MPA8000

KEY FEATURES

- Linearly polarized directional antenna for X-band and the lower Ku-band
- Planar microstrip patch array design enables a much lower profile compared to horn antennas
- High gain (up to 17 dBi)
- Symmetric main beam pattern
- VSWR typically below 2:1
- High-quality microwave substrates used to minimize losses
- Water-resistant enclosure with multiple mounting options
- Professionally designed and hand-tested by engineers in the United States



MPA8000

DESIGN SPECIFICATIONS

- Design: 16-element microstrip patch antenna array
- Operating Frequency: 8.0 GHz to 15.0 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Connector: SMA Female
- Construction: Plastic enclosure with internal PCB antenna
- Mounting: Two 4 mm diameter mounting holes (see diagram on page 4) and adapters included for pole-mounting
- Length: 5.1 in [130 mm]
- Width: 1.8 in [45 mm]
- Height: 6.7 in [171 mm] (not including SMA connector)
- Weight: 13.5 oz [382 g]

PERFORMANCE SPECIFICATIONS

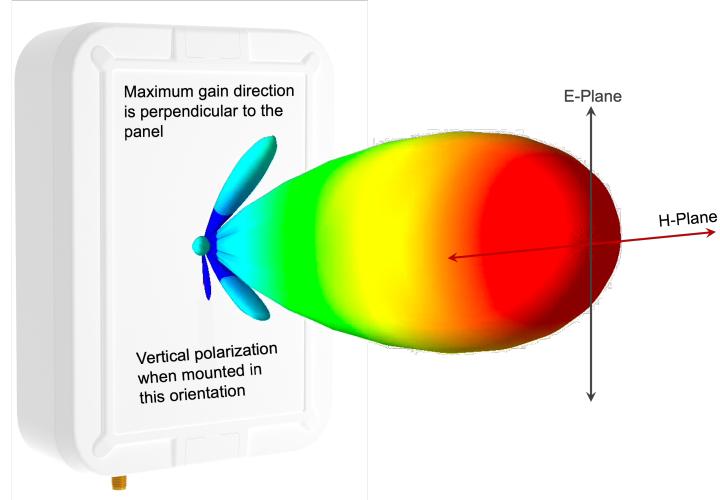
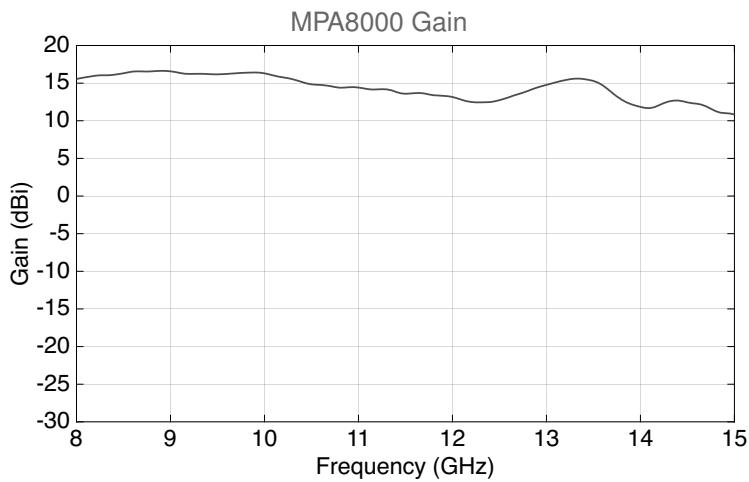
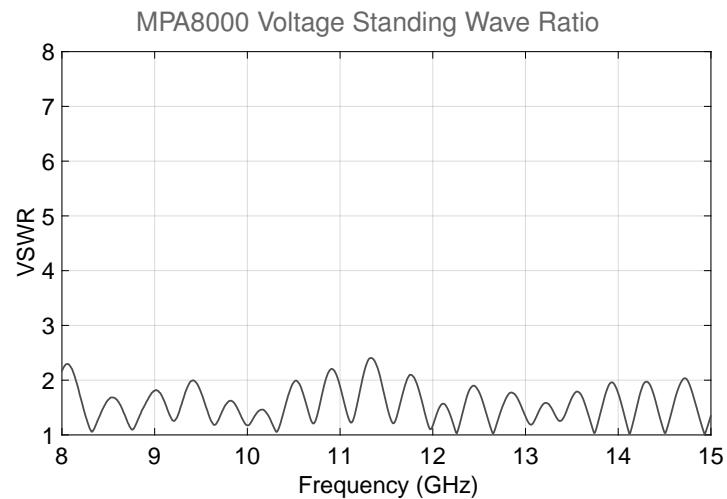
Parameter		Frequency	Min.	Typ.	Max.	Unit
VSWR		8.0 GHz – 15.0 GHz	–	1.6	3.0	–
Gain		8.0 GHz – 12.4 GHz	10.0	14.0	17.5	dBi
		12.4 GHz – 15.0 GHz	8.0	12.0	16.0	
HPBW	E-Plane	8.0 GHz – 15.0 GHz	9	16	22	deg.
	H-Plane	8.0 GHz – 15.0 GHz	10	16	21	
Input Power		8.0 GHz – 15.0 GHz	–	–	10	W
Impedance		–	–	50	–	Ω
Connector		–	–	SMA (female)		–

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TYPICAL PERFORMANCE

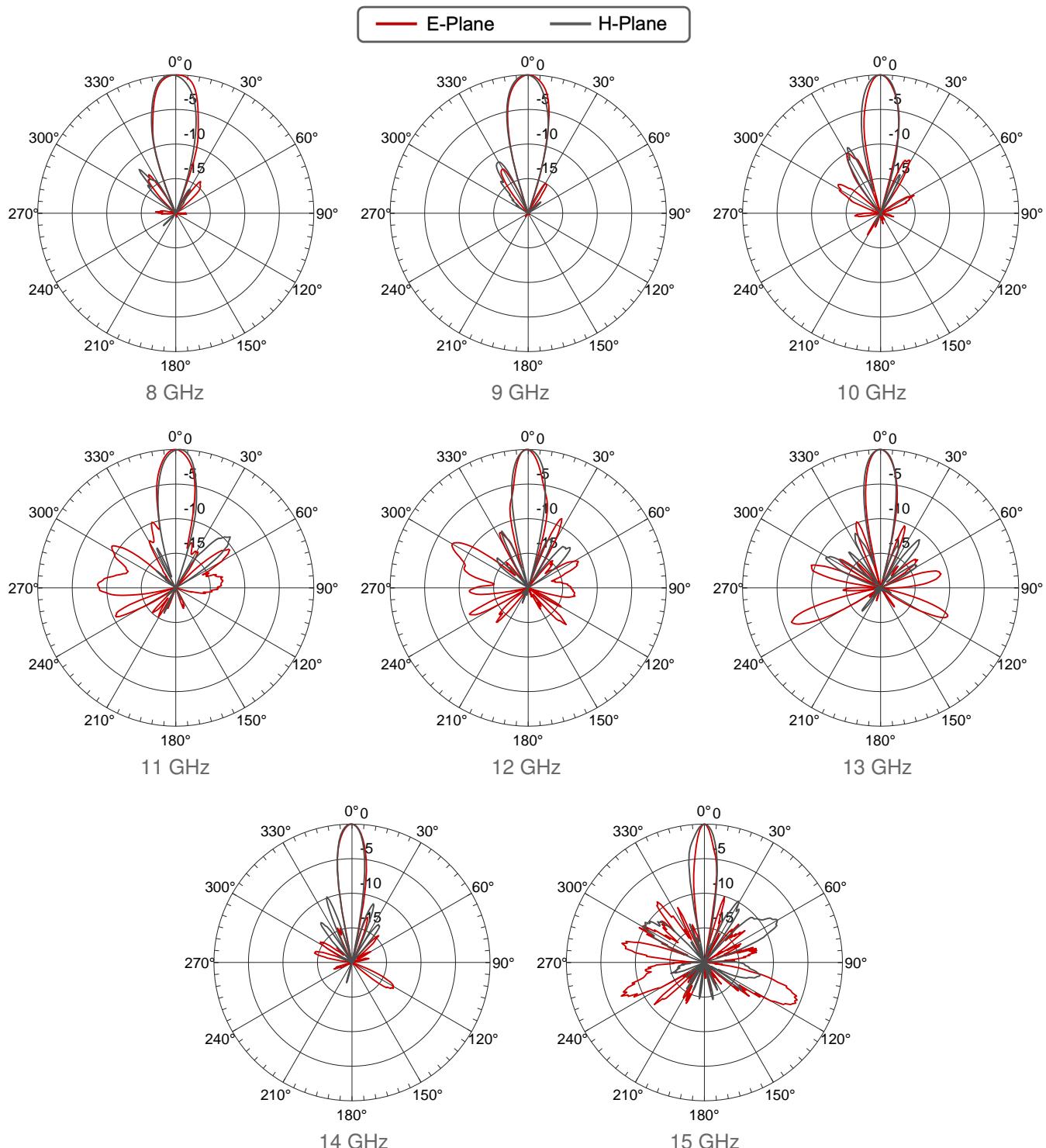


MICROSTRIP PATCH ANTENNA ARRAY

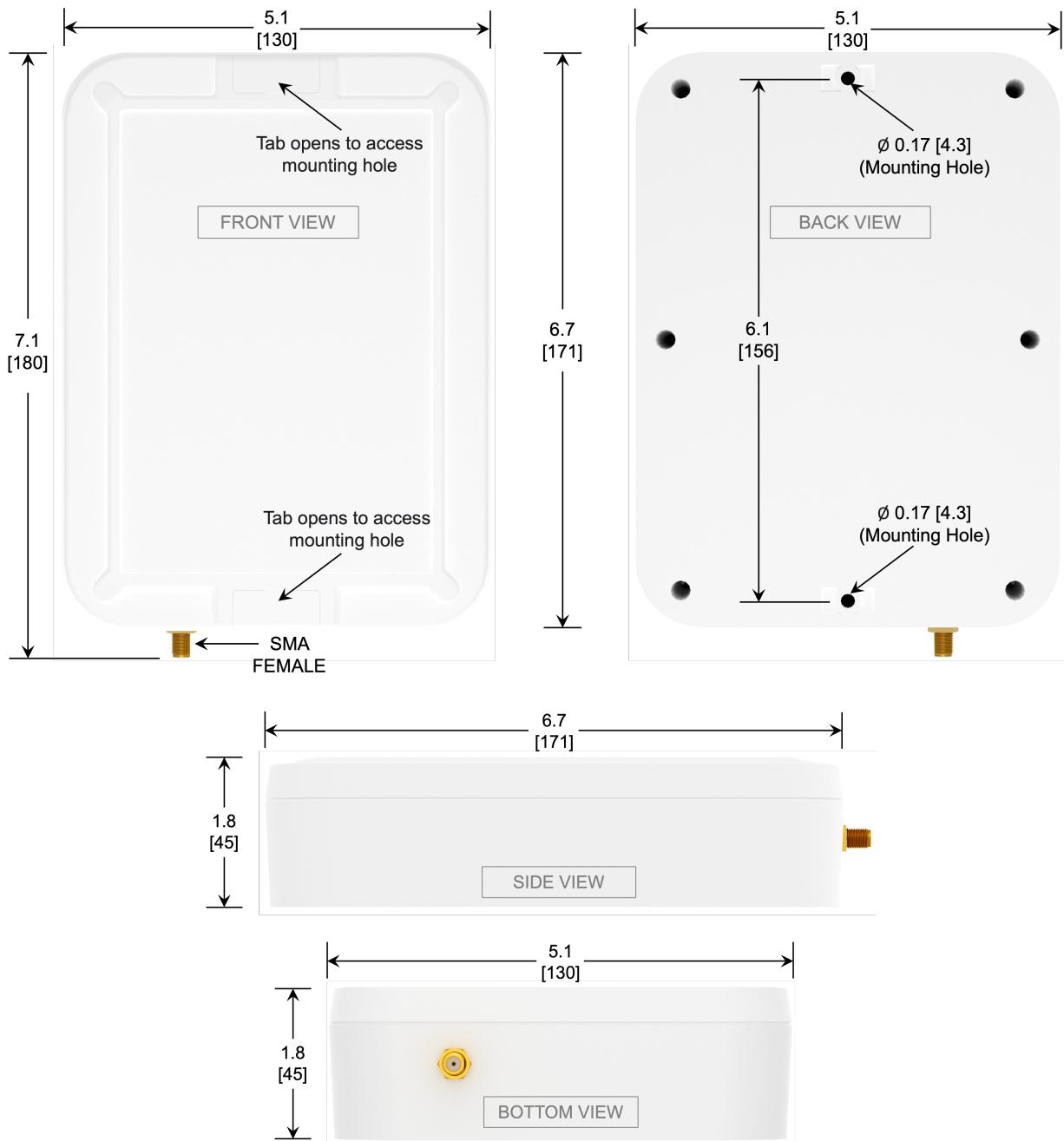
8.0 GHz TO 15.0 GHz

MPA8000

TYPICAL PERFORMANCE (CONT.)



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