

CUSTOM CENTER FREQUENCY FROM 3.5 GHz TO 8.5 GHz

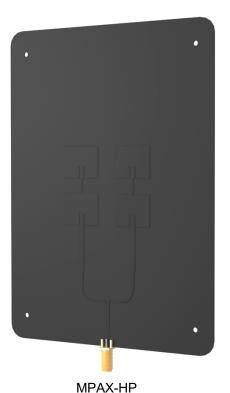
MPAX-H

KEY FEATURES

- Narrowband patch antenna with a custom operating frequency between 3.5 GHz and 8.5 GHz
- Guaranteed to meet performance specifications at your desired operating frequency or your money back
- Individually measured VSWR, radiation pattern, and gain data is provided with each custom antenna order
- Linearly polarized with typical gain over 10 dBi at the center frequency
- VSWR typically below 2:1 with 2% bandwidth
- High-quality microwave substrates used to minimize losses
- Optional water-resistant enclosure available with multiple mounting options

DESIGN SPECIFICATIONS

- Design: Multi-element microstrip patch antenna array
- Operating Frequency: Custom (from 3.5 GHz to 8.5 GHz)
- Polarization: Linear (horizontal/vertical based on orientation)
- Connector: SMA Female
- Construction: PTFE microwave laminate with copper cladding coated with black solder mask
- Mounting: Pre-drilled holes available for mounting (see diagrams on pages 4 and 5)
- Dimensions (without/with enclosure):
 - o Length: 4.7 in [120 mm] / 5.1 in [130 mm]
 - Width: 0.25 in [6.35 mm] / 1.8 in [45 mm]
 - Height: 7.0 in [178 mm] / 7.1 in [180 mm]



MODELS					
MPAX-HP	Antenna Only (PCB)				
MPAX-HE	Antenna with Enclosure				

PERFORMANCE SPECIFICATIONS

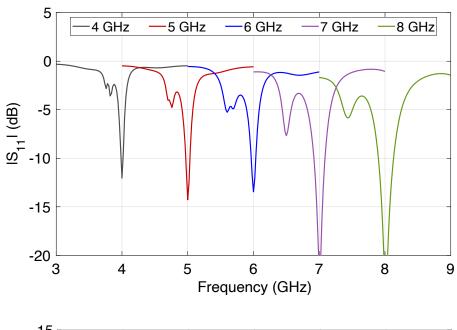
Para	meter	Center Frequency	Min.	Тур.	Max.	Unit
VSWR		3.5 GHz – 8.5 GHz	_	1.8	2.5	
Impedance	Bandwidth	3.5 GHz – 8.5 GHz	1%	2%	4%	
Gain at Co	enter Freq.	3.5 GHz – 8.5 GHz	9.0	10.5	12.0	dBi
HPBW	E-Plane	3.5 GHz – 8.5 GHz	35	42	50	deg.
ПРБИИ	H-Plane		30	50	60	
Input	Power	3.5 GHz – 8.5 GHz			10	W
Impedance		_	50			Ω
Connector		<u>—</u>	SMA (female)			_

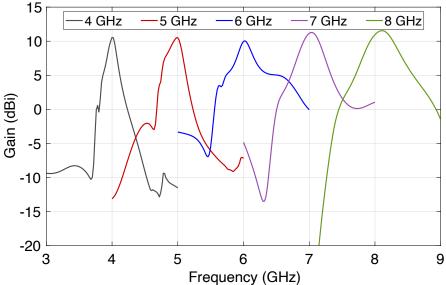


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TYPICAL PERFORMANCE DATA





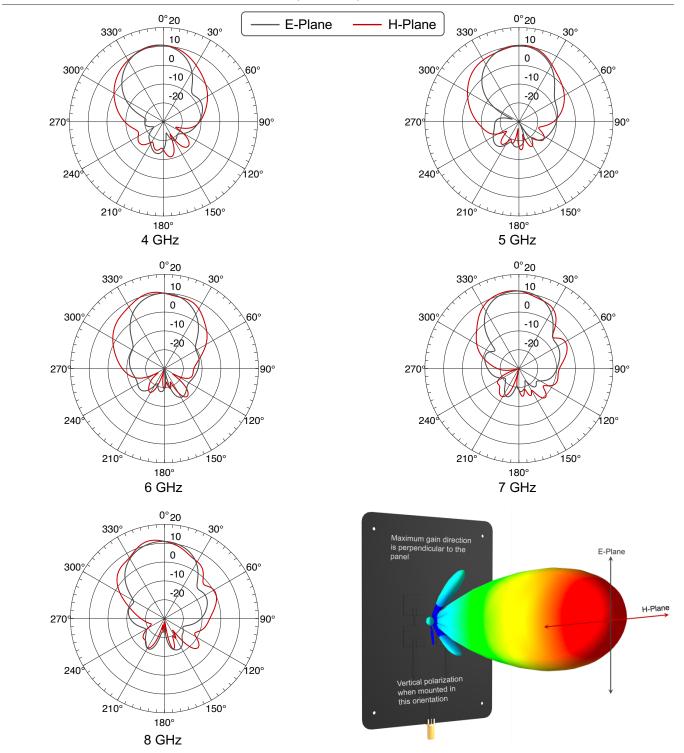
Note: These plots represent typical performance for select center frequencies (4 GHz, 5 GHz, 6 GHz, 7 GHz, and 8 GHz). Any custom center frequency between 3.5 GHz and 8.5 GHz can be specified when ordering.



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TYPICAL PERFORMANCE DATA (CONT.)



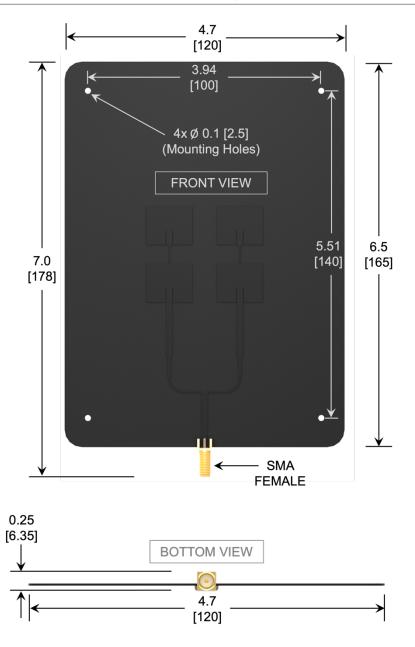
MPAX-H REV 1.0



CUSTOM CENTER FREQUENCY FROM 3.5 GHz to 8.5 GHz

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CAD DRAWING WITH NO ENCLOSURE (MPAX-HP OPTION)



NOTES

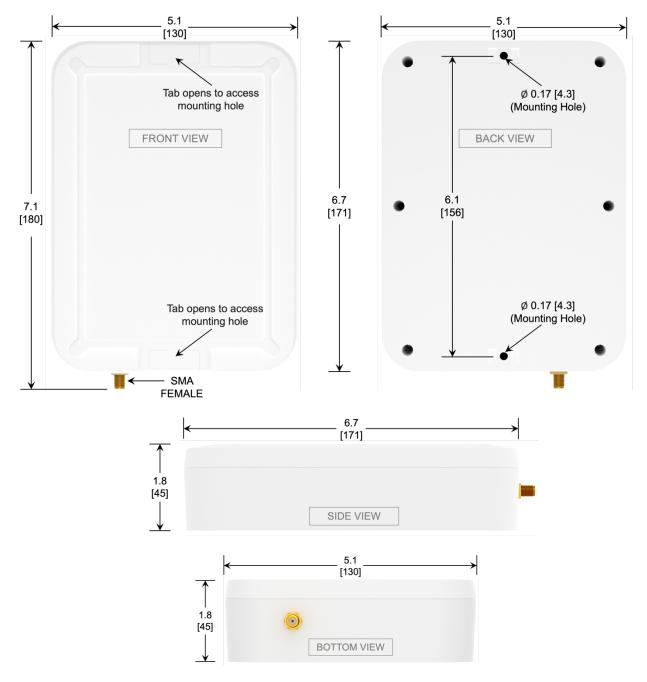
- 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL
- 2. DIMENSIONS ARE IN INCHES [mm]
- 3. APPEARANCE OF PATCH WILL VARY BASED ON DESIRED CENTER FREQUENCY
- 4. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME



CUSTOM CENTER FREQUENCY FROM 3.5 GHz to 8.5 GHz

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CAD DRAWING WITH ENCLOSURE (MPAX-HE OPTION)



NOTES

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