



**Tone Spread**  
Solutions for Wireless Signal

# Tone Spread Technology Co., Ltd.

698-4000MHz Low PIM Outdoor MIMO Panel Antenna

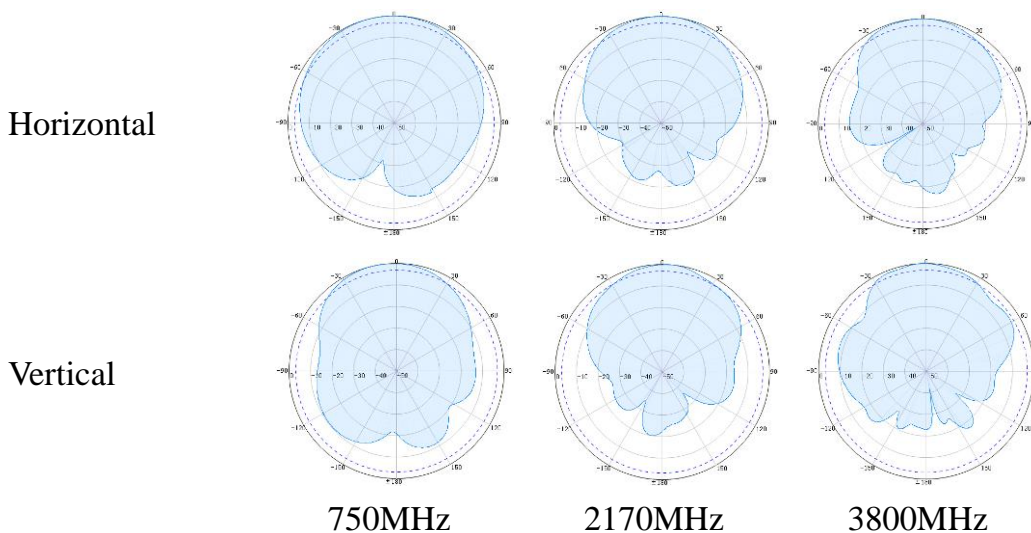
Model: MOPA-698-4000S-9-65A-OD-NV3 (N female)

MOPA -698-4000S-9-65A-OD-MV3 (4.3-10 female)



<b>Electrical Specifications</b>			
Frequency Range, MHz	698-960	1710-2700	3300-4000
Gain, dBi	5.5	8.5	7.0
VSWR	≤2.0	≤1.8	≤2.0
Polarization	H+V		
Isolation, dB	≥12	≥20	≥24
Front to Back Ratio, dB	≥7	≥13	≥10
PIM, 3rd Order, 2x20W	≤-153 dBc		
Horizontal Beam width	90°	65°	45°
Vertical Beam width	78°	60°	38°
Input Impedance	50 Ω		
Max. Input Power	50 W		
Lightning Protection	DC Ground		
<b>Mechanical Specifications</b>			
Connector	2 x N Female	2 x 4.3-10 Female	
Dimensions	315x195x68 mm		
Weight	0.65 kg		
Reflector Material	Aluminum and PCB		
Radome Material	ABS (UV Stabilized)		
Operating Temperature	-40°C to +65°C		

## Radiation Patterns



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