



**Tone Spread**  
Solutions for Wireless Signal

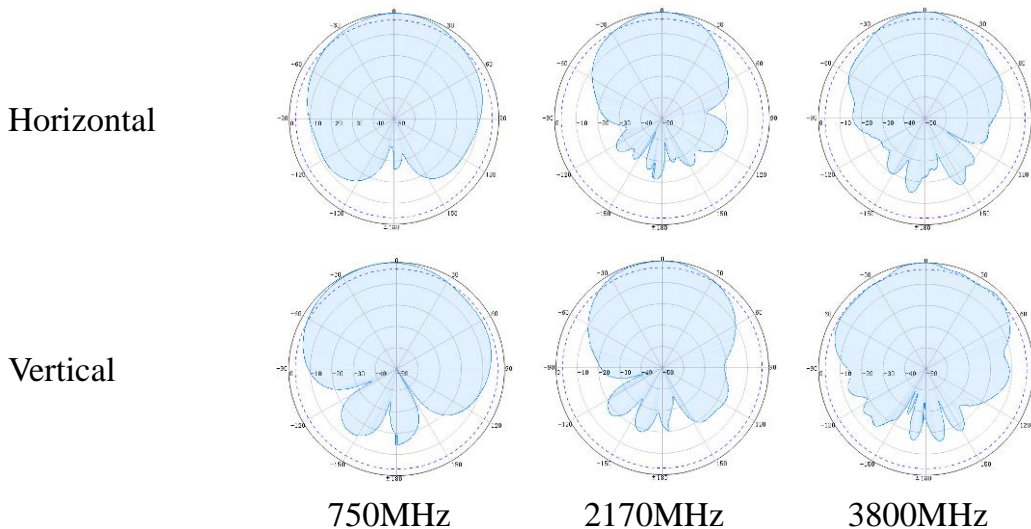
# Tone Spread Technology Co., Ltd.

698-4000MHz Low PIM Outdoor Panel Antenna  
Model: PA-698-4000-7-65A-OD-NV3 (N female)  
PA-698-4000-7-65A-OD-MV3 (4.3-10 female)



<b>Electrical Specifications</b>				
Frequency Range, MHz	698-806	806-960	1710-2700	3300-4000
Gain, dBi	5.5	6.5	8.0	7.0
VSWR	≤2.0	≤2.0	≤1.8	≤1.8
Polarization	Vertical			
PIM, 3rd Order, 2x20W	≤-153 dBc			
Front to Back Ratio, dB	≥9	≥10	≥15	≥11
Horizontal Beam width	100°	85°	65°	50°
Vertical Beam width	90°	82°	60°	45°
Input Impedance	50 Ω			
Max. Input Power	50 W			
Lightning Protection	DC Ground			
<b>Mechanical Specifications</b>				
Connector	N Female		4.3-10 Female	
Dimensions	180x158x60 mm			
Weight	0.4 kg			
Reflector Material	Aluminum			
Radome Material	ABS (UV Stabilized)			
Operating Temperature	-40°C to +65 °C			

## Radiation Patterns



Add: 2F No.141. Fu-Gang St. Taipei, Taiwan

Tel: +886-2-2882-8979  
Email: sales@tspd.com.tw

Fax: +886-2-2882-9196  
Website: www.tspd.com.tw