



# PAS69278

698-960 MHz/1710-2700 MHz
Pole Mount Directional Panel Antenna

#### **MULTI-BAND DIRECTIONAL PANEL ANTENNA**

The PAS69278 antenna is a wide band dual port directional panel antenna with slant 45 polarization that covers the domestic LTE700/Cellular/PCS/AWS/MDS and global GSM900/ GSM1800/UMTS/LTE2600 bands. The antenna is ideal for both indoor and outdoor applications. It includes a UV stable radome enclosure that provides years of use without degradation to either mechanical properties or aesthetics.

#### FEATURES & BENEFITS **▼ROHS**

- Applicable for both 3G and 4G solutions
- Domestic LTE 700 band and
- Global LTE 2600 band
- WiMax 2300/2500 bands
- Domestic Cellular and Global GSM

- Weatherproof UV stable radome
- Wall mounting hardware included (optional mast mount kit available)
- Conformance to RoHS

# **APPLICATIONS**

- Wireless Terminal, Point-of-Sale, Machine to Machine,
- · Automatic Meter Reading and
- Home Security

TYPICAL ELECTRICAL SPECIFICATIONS		
Frequency	698 - 960 MHz / 1710 - 2700 MHz	
VSWR	2.0:1 Max.	
Gain	698 - 960 MHz: 7.5 - 9.0 dBi, 1700 - 2700 MHz: 5.7 - 9.5 dBi	
Average Efficiency	698 - 960 MHz: 80% - 87%, 1700 - 2700 MHz: 60% - 85%	
3 dB Beamwidth (Vertical plane)	698 - 960 MHz: 55° - 70°, 1700 - 2700 MHz: 50° - 80°	
3 dB Beamwidth (Horizontal plane)	698 - 960 MHz: 55° - 70°, 1700 - 2700 MHz: 50° - 80°	
F/B Ratio , Co-pol	698 - 960 MHz: > 23 dB, 1700 - 2700 MHz: > 17 dB	
Cross polarization, Axial	698 - 960 MHz: > 25 dB, 1700 - 2700 MHz: > 17 dB, typical 23 dB	
Isolation	> 25 dB	
Polarization	Slant ± 45o	
Nominal Impedance	50 Ohms	
Power	2 x 10 Watts	
RF Connector	Dual Type N female	

TYPICAL ELECTRICAL SPECIFICATIONS		
IP Class	IP55	
Environmental Conditions	ETSI EN 300 019-2-4, class 4.1E.	
Mount Style	Wall/Mast w/mounting hardware (Wall mount)	
Radome and Base Plastic	UL94 V0 rated (UV resisted)	
Radome & Base color:	White, Color code (SABIC) WH9B034	
Material Substance Compliance	ROHS Compliant	
Temperature	-40°C to +70°C	
Dimensions	295 x 295 x 82 mm	
Weight	1.46 kg	

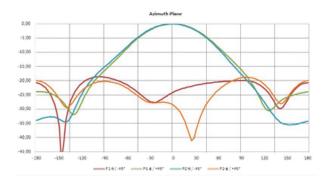
# **CABLES AND CONNECTORS**

PART NUMBER	CABLE LENGTH	CONNECTOR
PAS69278-91NF	Dual 91 cm (36")	Dual Type N- Female
PAS69278-FNF	N/A (Direct connect)	Dual Type N- Female

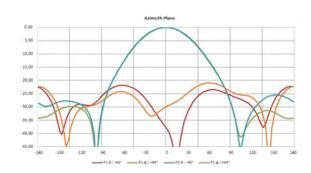
# **TYPICAL RADIATION PATTERNS**

# **Low Band 698-960 MHz**

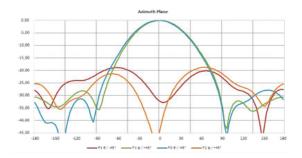




# 900 MHz



# 960 MHz

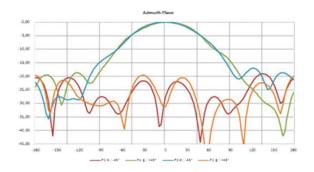


# **High Band 1710-2700 MHz**

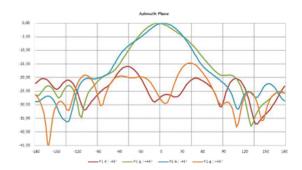
#### 1710 MHz

# Asimuth Plane 0.00 10.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15

#### 2200 MHz



#### 2700 MHz



#### TE TECHNICAL SUPPORT CENTER

USA: +1 (800) 522-6752 +1 (905) 475-6222 Canada: Mexico: +52 (0) 55-1106-0800 Latin/S. America: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999 +44 (0) 800-267666 UK: +33 (0) 1-3420-8686 France: Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015

#### te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warrantied to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original