



Description

Super Compact 7dBi 2.4GHz Directional Panel Antenna 300mm of RG-58 Pigtail with N Type Male Connector

Features:

Super Compact, High-Gain Panel Antenna 2.4GHz Coverage 7dBi Peak Gain Multiple Mounting Options

Capie: 300mm of RG-58 Connector: N-Type (Male) Dimensions: 122 x 122 x 47mm RoHS & Reach Compliant



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Ireland & USA ISO 9001:2015 Certified



Taiwan ISO 9001:2015 Certified









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1. Introduction



The Taoglas **FG.2x Series** of compact 2.4GHz Panel antennas are specially designed to provide directional wireless communication. The panel design combines a sleek, low-profile design with high-performance, delivering superior performance characteristics. Focused on high-performance signal transmission and reception, they are perfect for applications requiring long range, faster data rates and more resilient connections. The FG.26 offers a peak gain of up to 7dBi and the FG.27 reaches up to 12dBi, both with great efficiency of over 60%.

Typical Applications Include:

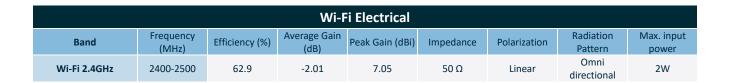
- Point to Point and Point to Multipoint Wireless Networks
- In-building and Backhaul Networks
- Long Range Wi-Fi Coverage for Smart City Applications
- Wireless Surveillance Systems
- Wi-Fi Hotspot Expansion, e.g. Factories and Dockyards

The IP65 waterproof rated antenna enclosure is made from UV resistant ABS making it ideal for use in challenging environments and wide temperature ranges. It is supplied with a mounting bracket that allows for positional tilt and swivel to optimise the directionality of the antenna. The FG Series is supplied with RG-58 cable and N-Type connectors as standard, both of which can be fully customised to suit your requirements pending MOQ.

For further information or samples, please contact your regional Taoglas customer support team.



2. Specification

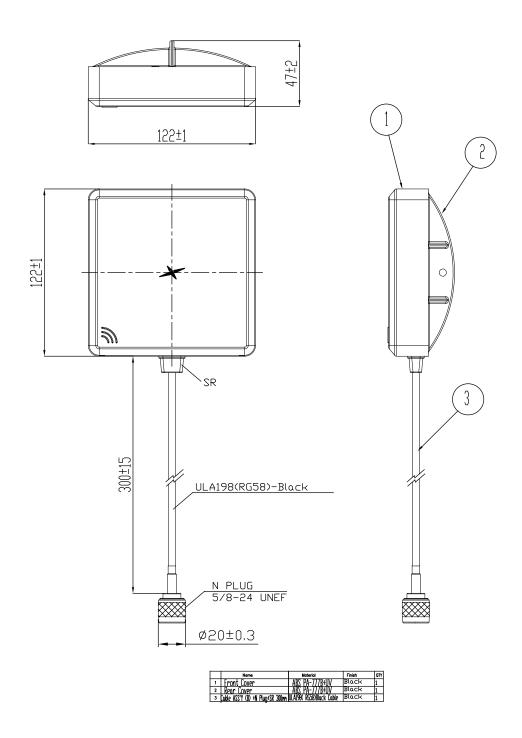


Mechanical				
Dimensions	210 x 210 x 74mm			
Material	ABS PA-777B+UV			
Connector	N Type (M)			
Cable	300mm of RG-58			

Environmental				
Operation Temperature	-40°C to 85°C			
Storage Temperature	-40°C to 85°C			
Relative Humidity	Non-condensing 65°C 95% RH			

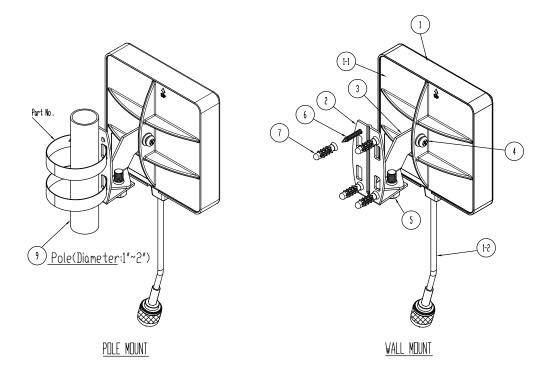


3. Mechanical Drawing





4. Installation Guide



5		M8-12.9x20mm(screv M8-Ø12.2x1.5mm(s/w: M8-Ø12.5x1.5mm(w)	
4	•	M5-Ø10*111.5MM	1pc
3		26(w)x5(t)mm	lpc
(2)		80x40x40mm	1pc
8		2-1/2"(40~63mm) 12.7(w)x0.6(t)mm	2pcs
7		Ø8x25mm	4pcs
6		TH5/32'-16*3/4' (Ø9x19mm)	4pcs
ITEM	Graphics	Size(LxWxH)	Q'TY

⑧	Hose Clamp 2-1/2"(40~63mm)	SUS304	2
6	Anchor	PP	4
	TH5/32"-16*3/4"TP-A screw	202305	4
(5)	WS S/W	SUS304	5
	M8 W	SUS304	1
	XH M8-12.90*20mm screw	SUS304	4
4	BH M5 (S/V+V) Screw	202305H0	4
3	Mounting Adaptor	SUS304	4
0	L Type Mounting	SUS430	1
(-)	Antenna Body-Cable Ass'y(N Plug)	ULA198(RG58)Black	1
1-)	Antenna Body-Rear Cover	ABS PA-777B+UV	1
1	Antenna Body-Front Cover	ABS PA-777B+UV	1
ITEM	DESCRIPTION	MATERIAL	Q'TY



5. Packaging

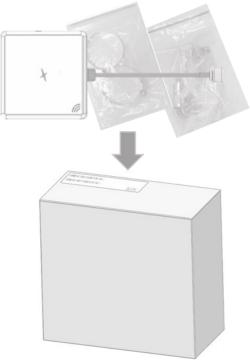
1 Pcs per PE bag



1 pcs per zipper bag



1pcs per box Box dimensions: $180 \times 70 \times 145$ mm Weight: 0.44Kg





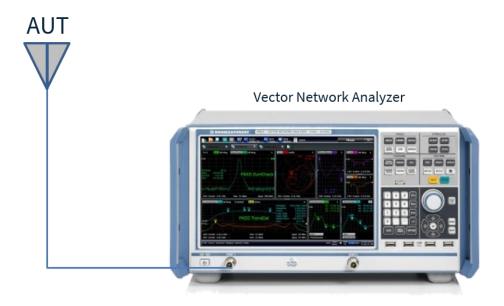
20pcs per carton Carton dimensions: 380 x 376 x 320mm Weight: 9.7Kg





6. Antenna Characteristics

6.1 Test Setup

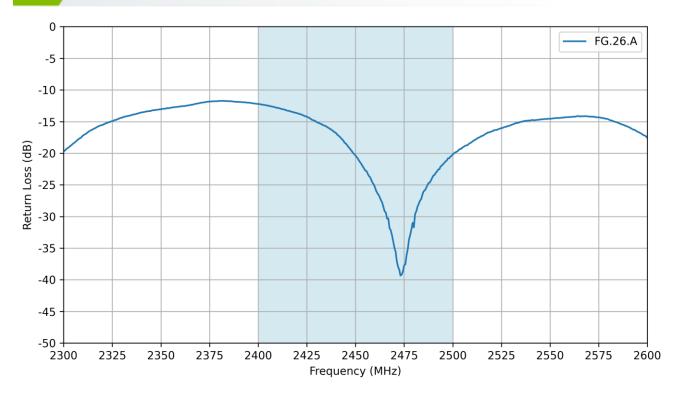




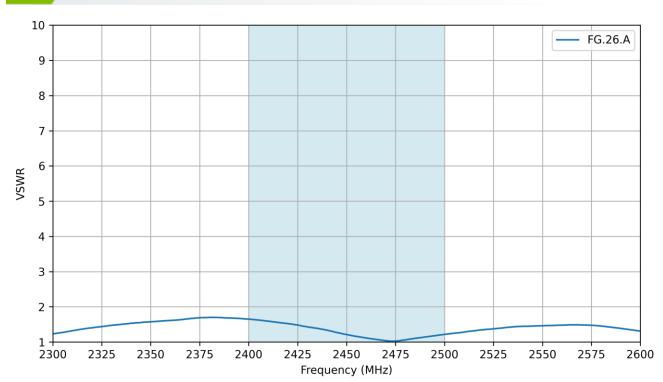
VNA Setup



6.2 Return Loss

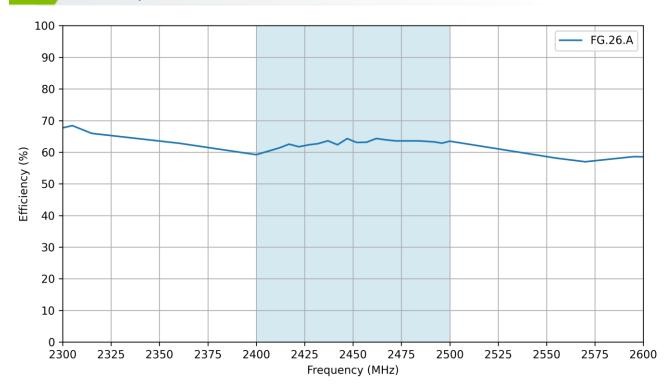


6.3 VSWR

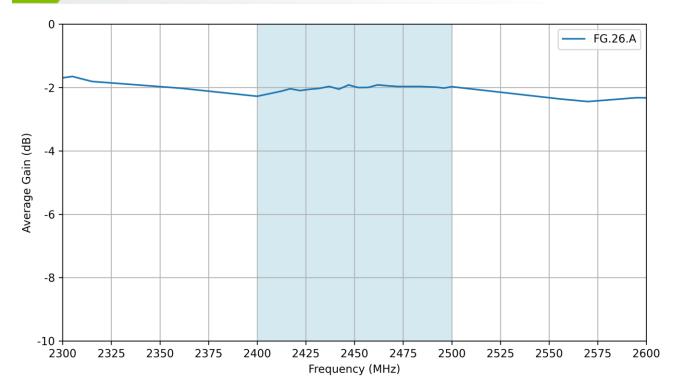




6.4 Efficiency

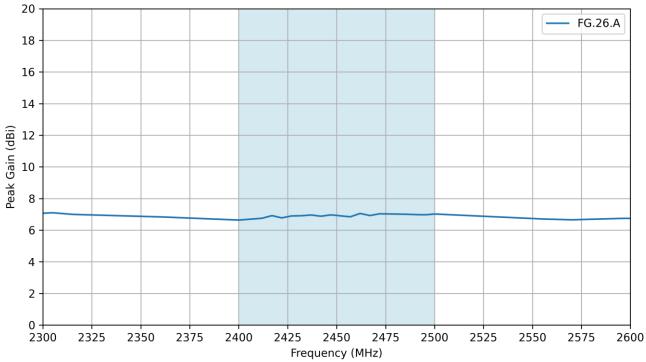


6.5 Average Gain





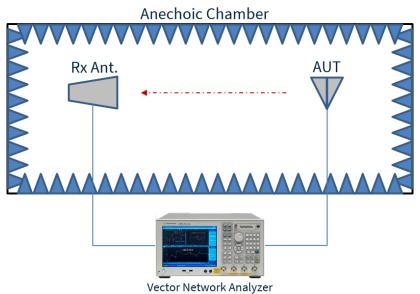




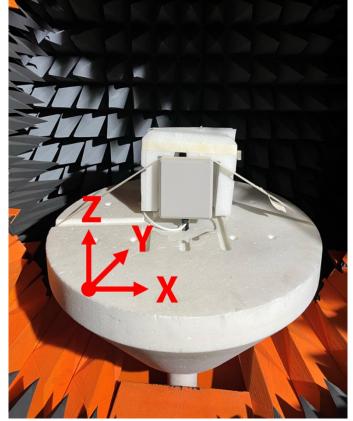


7. Radiation Patterns

7.1 Test Setup



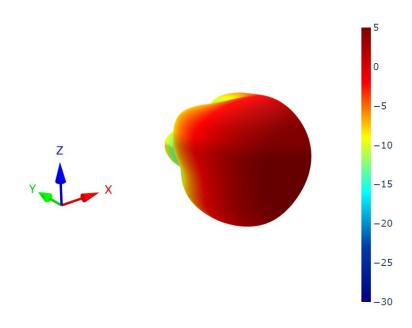
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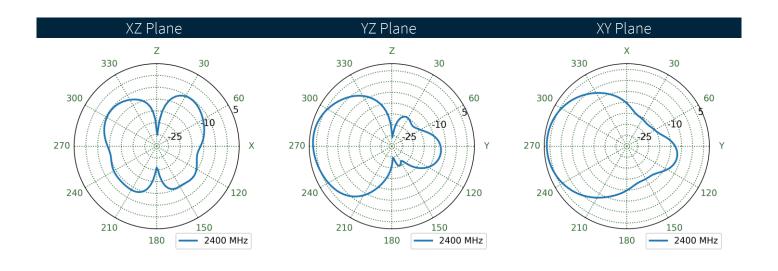


VNA Setup



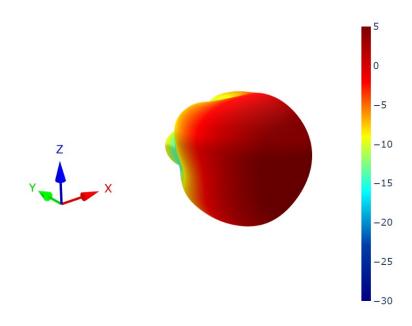
7.2 Patterns at 2400 MHz

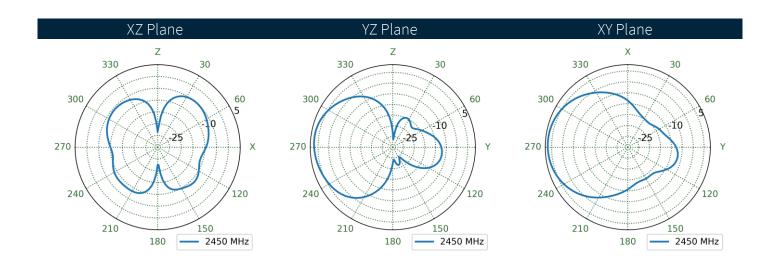






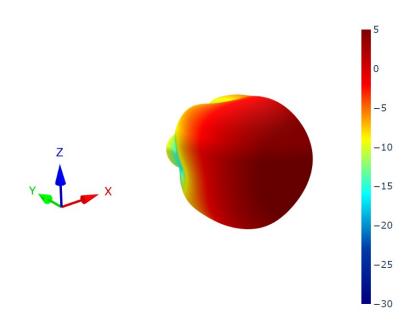
7.3 Patterns at 2450 MHz

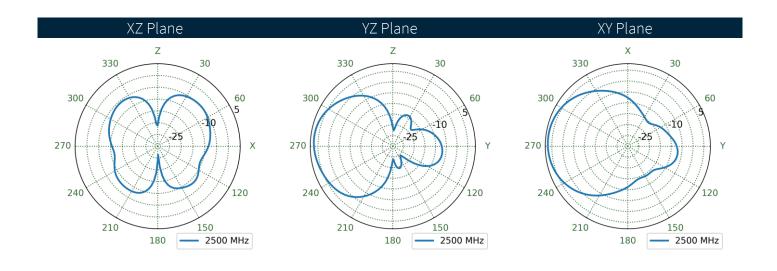






7.4 Patterns at 2500 MHz







Changelog for the datasheet SPE-24-8-242 – FG.26.A Revision: A (Initial Release) Date: 2024-09-26 Notes: Initial Datasheet Release Author: Gary West

Previous Revisions





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