



TRIMBLE

2.4GHz Sleeve Dipole Antenna

2.4GHz fixed duck-style antenna (2.4-2.483 GHz) used on Trimble's next-generation smart targets, a key part of their surveying equipment for optical robotic total stations designed to enhance accuracy and productivity in challenging conditions.

FEATURES

- Performance at 2.4 GHz to 2.483 GHz
 - VSWR: ≤ 2.0
 - Peak Gain: 2.2 dBi
 - Azimuth Gain Ripple: < 4 dB
- Compact size
 - 103.0 mm x $\varnothing 15.8$ mm
- IP67 dustproof rated
- RP-SMA Male Connector

APPLICATIONS

- Smart target for robotic total station
- 2.4 GHz ISM applications
 - Bluetooth®
 - Wi-Fi (2.4GHz)

PART NUMBER

Parameter	Value
Part Number	L000625-01
Number of Ports	1
Antenna Type	Sleeve Dipole

ELECTRICAL	
Operating Frequency (MHz)	2400 - 2483
Peak Gain, max. (dBi)*	2.7
Peak Gain, ave. (dBi)*	2.2
Peak Gain in Azimuth Plane, max. (dBi)*	1.1
Peak Gain in Azimuth Plane, ave. (dBi)*	0.8
Gain Ripple in Azimuth Plane, max. (dB)*	4.0
Total Efficiency, ave.*	72%
Vertical Beamwidth*	85°
VSWR, max*	2.0:1
Max Power @ Ambient 20°C, Watts	1
Nominal Impedance (Ω)	50

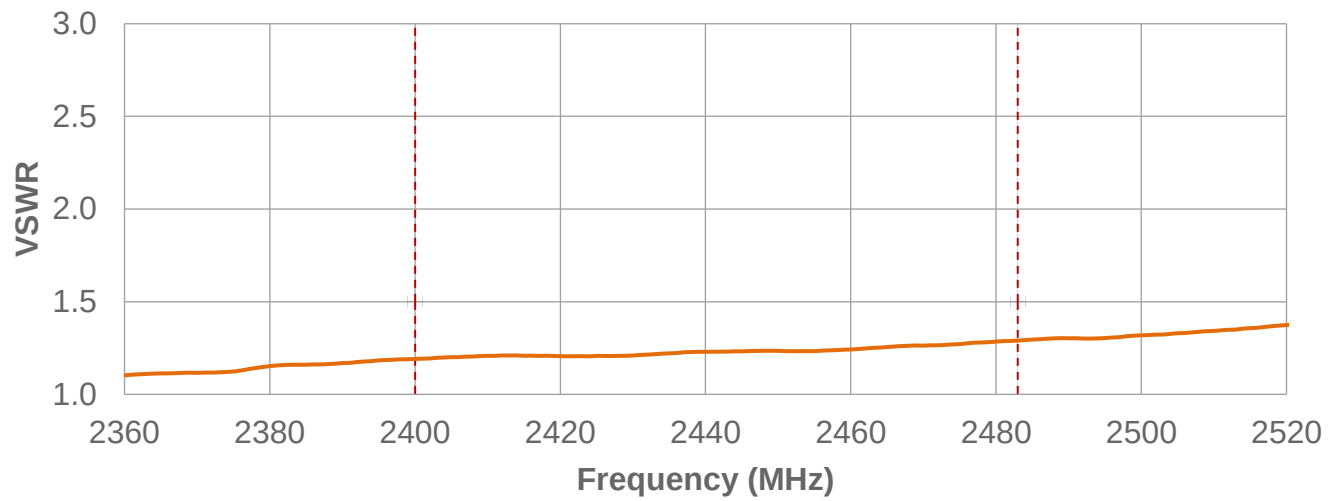
*Measured without outer carbon fiber pole.

†Performance is device-dependent and subject to change.

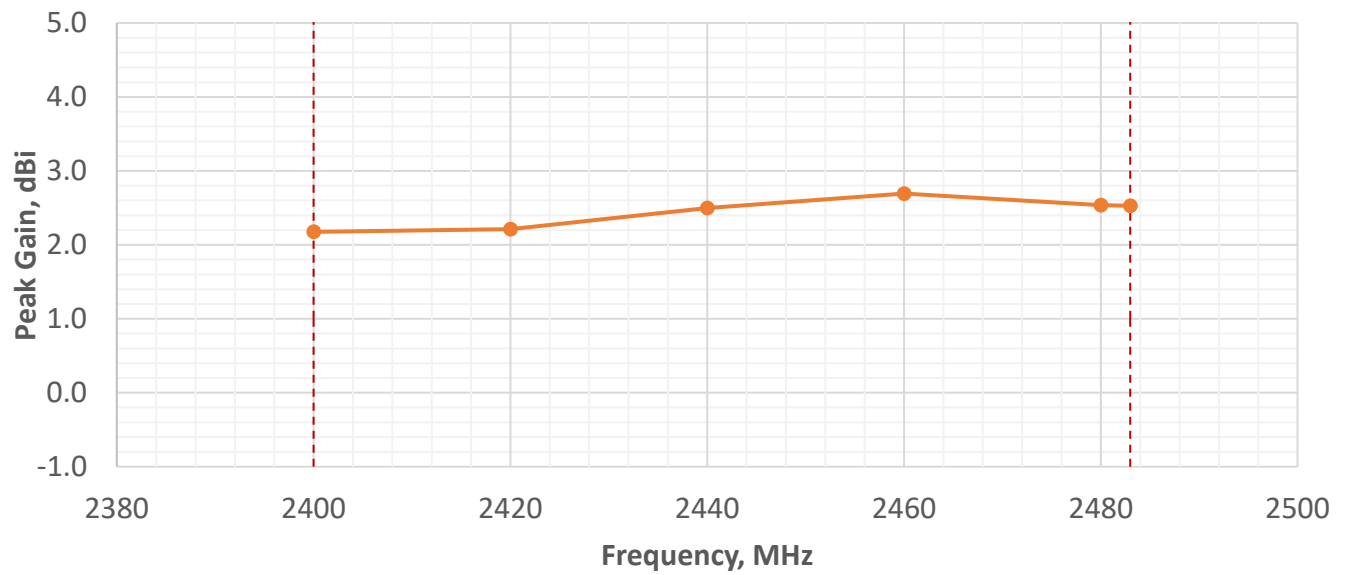
MECHANICAL	
Dimension, $\varnothing$ x height (mm)	15.8 x 103
Weight (g)	20.2
Antenna Material	TPU Texin 950U
Antenna Color	Black
Connector	RP-SMA(M)

ENVIRONMENTAL	
Operating Temperature (°C) [°F]	-40 to +85 [-40 to +185]
Storage Temperature (°C) [°F]	-40 to +85 [-40 to +185]
IP Rating	IP67
Material Substance Compliance	RoHS

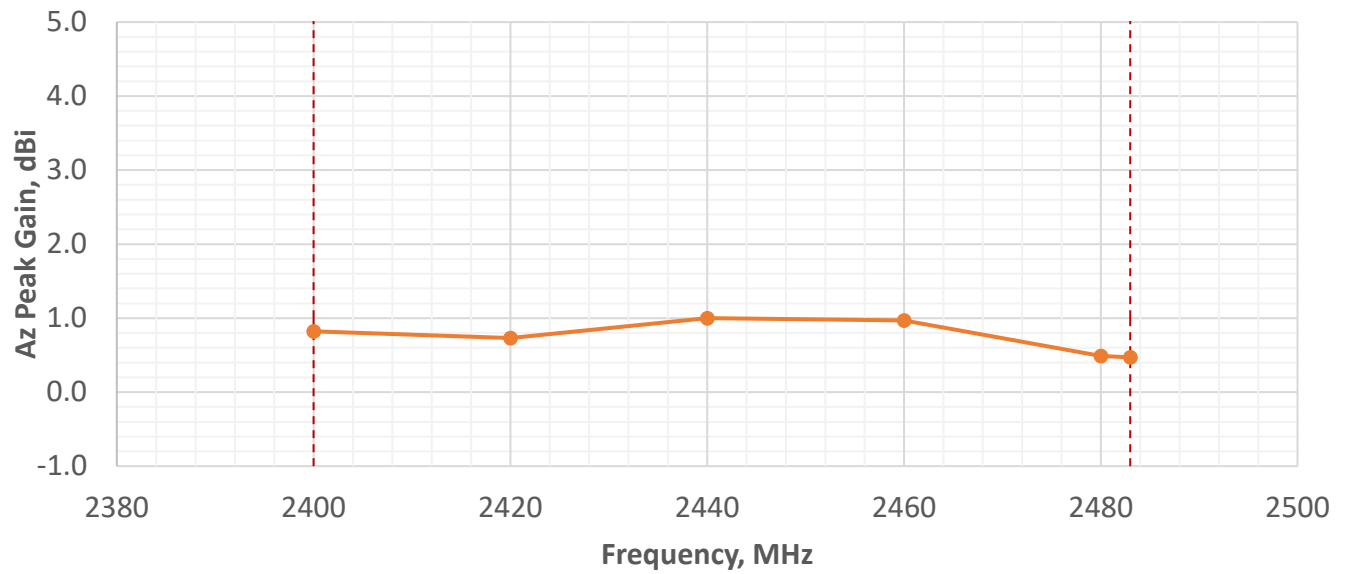
VSWR



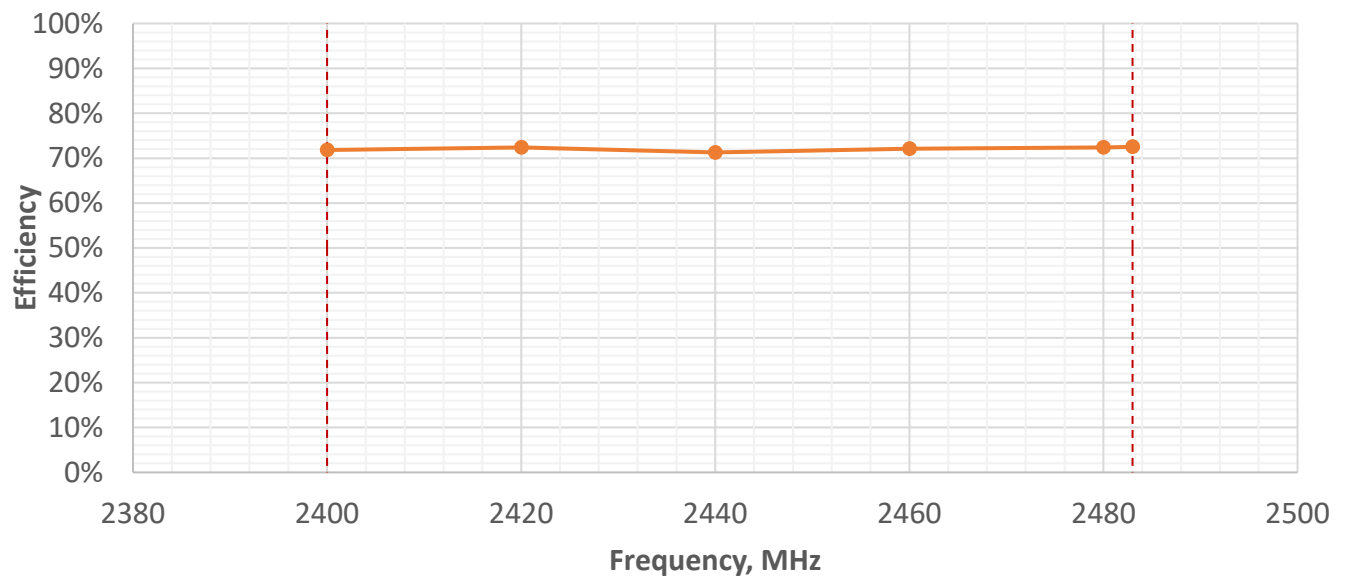
3D PEAK GAIN



AZIMUTH PEAK GAIN

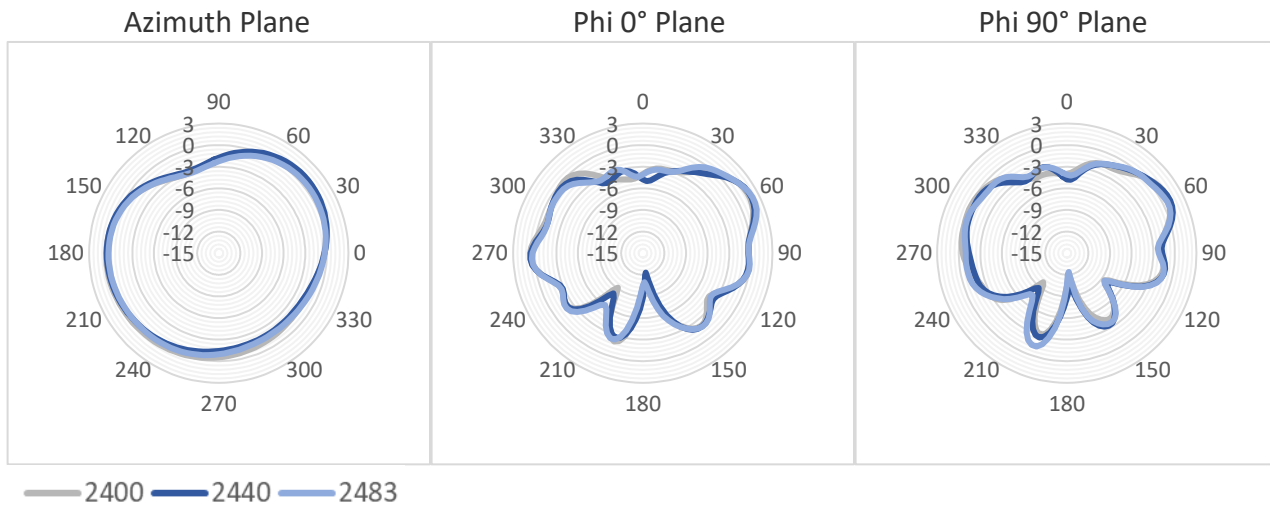


TOTAL EFFICIENCY

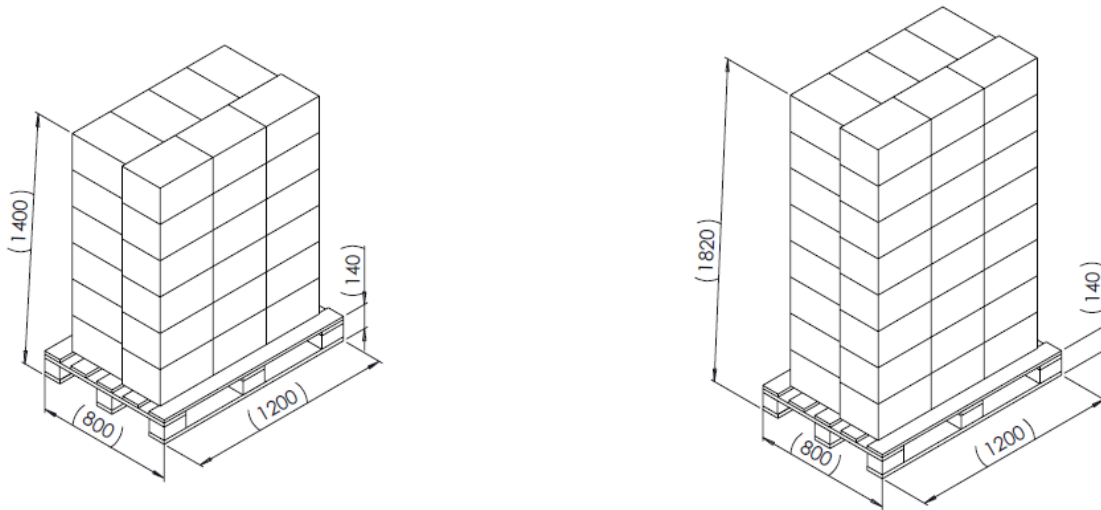


Radiation Patterns

Radiation Patterns at 2.4 - 2.483 GHz



PACKING INFORMATION



PACKAGED DIMENSIONS	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	250	10500	14000
Height, mm (in)	210 (8.27)	1400 (55.12)	1820 (71.65)
Length, mm (in)	355 (13.98)	1200 (47.24)	1200 (47.24)
Width, mm (in)	255 (10.04)	800 (31.50)	800 (31.50)
Est Shipping Weight Pallet, Kg (lbs.)	5.15 (11.35)	228.3 (503.35)	300.4 (662.27)

TE TECHNICAL SUPPORT CENTER

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

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