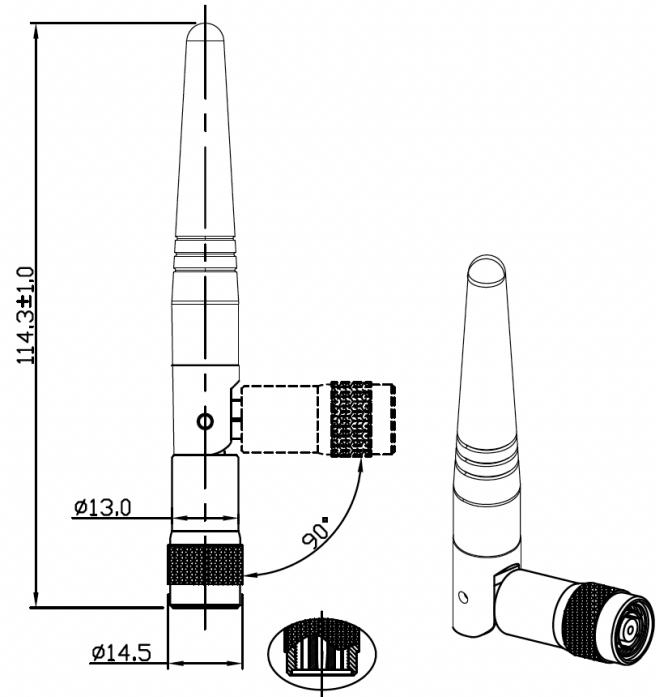
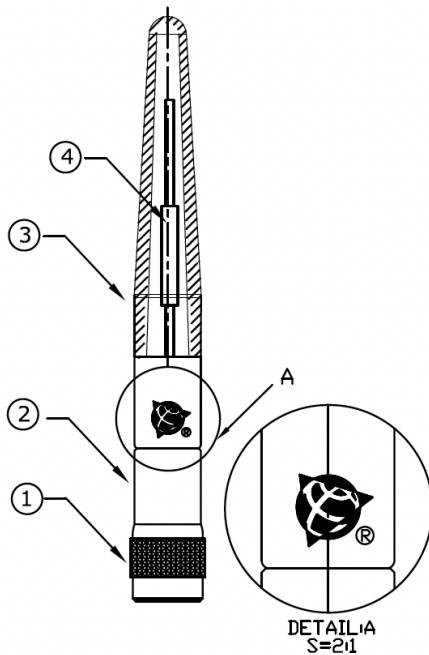


REV.	DATA	BY	DESCRIPTION
C	2015-02-16	Sky	修改NOTE規格
D	2024/07/05	shuhong	Gain



Specification:

MECHANICAL

Antenna Cover : TPE.

Antenna Base : Engineering Plastics

Color : Black

Operation Temperature:-20°C ~ +65°C

Storage Temperature:-30°C ~ +75°C

Coaxial Cable :RG-178

Connector :TNC-Male-RP

ELECTRICAL

Frequency :2400~2500MHz

Impedance : 50Ω

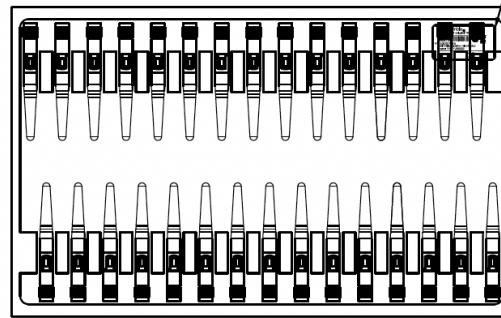
GAIN:>= 1 dBi Minimum and <= 2dBi Maximum

V.S.W.R. :≤ 2.0

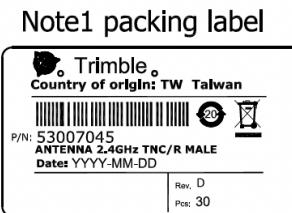
Radiation : Omni

Polarization : Linear

30 pcs / tray packaging



See Note1



NO.	Q`ty	Unit	Description
4.	1.	PCS	Zinc nickel alloy tube
3.	1.	PCS	Antenna Cover : TPE.
2.	1.	PCS	Antenna Base : Engineering Plastics
1.	1.	PCS	Connector : TNC Male R/P
Our P/N:			K146503001
Trimble P/N :			STIG Wahlstrom Elektronik AB
53007045			DESCRIPTION:
TOLERANCE:			ANTENNA 2.4 GHz TNC/R MALE
XXX	±0.10	DAR.	
XX	±0.25	CHK.	
X	±0.38		DWG NUMBER:
X	±0.50		6623C09021
ANG	±3°	APR.	Revision D
		UNIT	mm
		SCALE	1.2/1
		SHEET	1 of 1



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

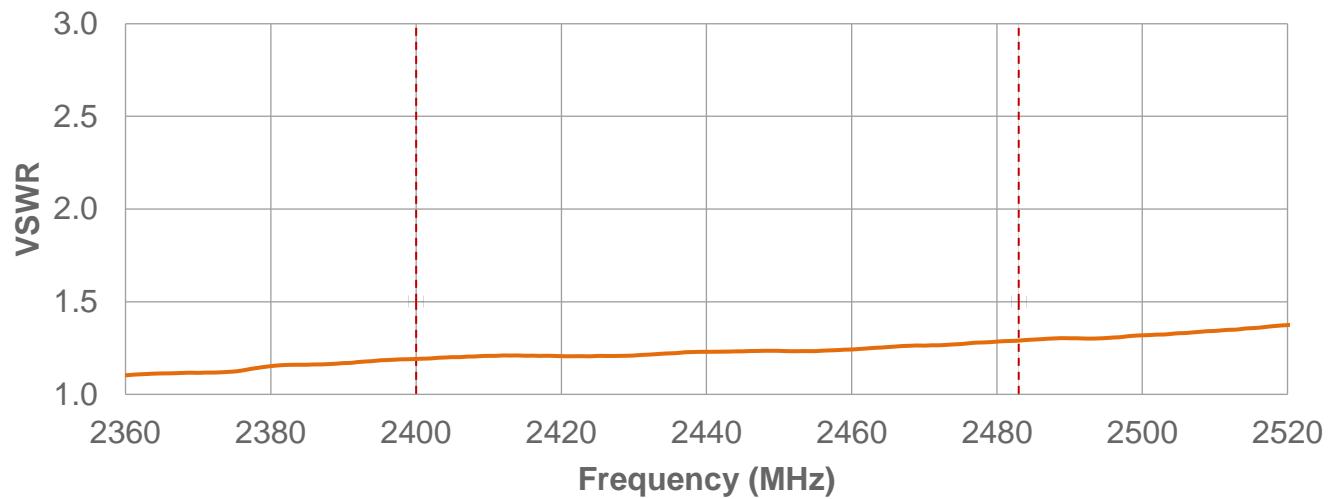
*Measured without outer carbon fiber pole.

†Performance is device-dependent and subject to change.

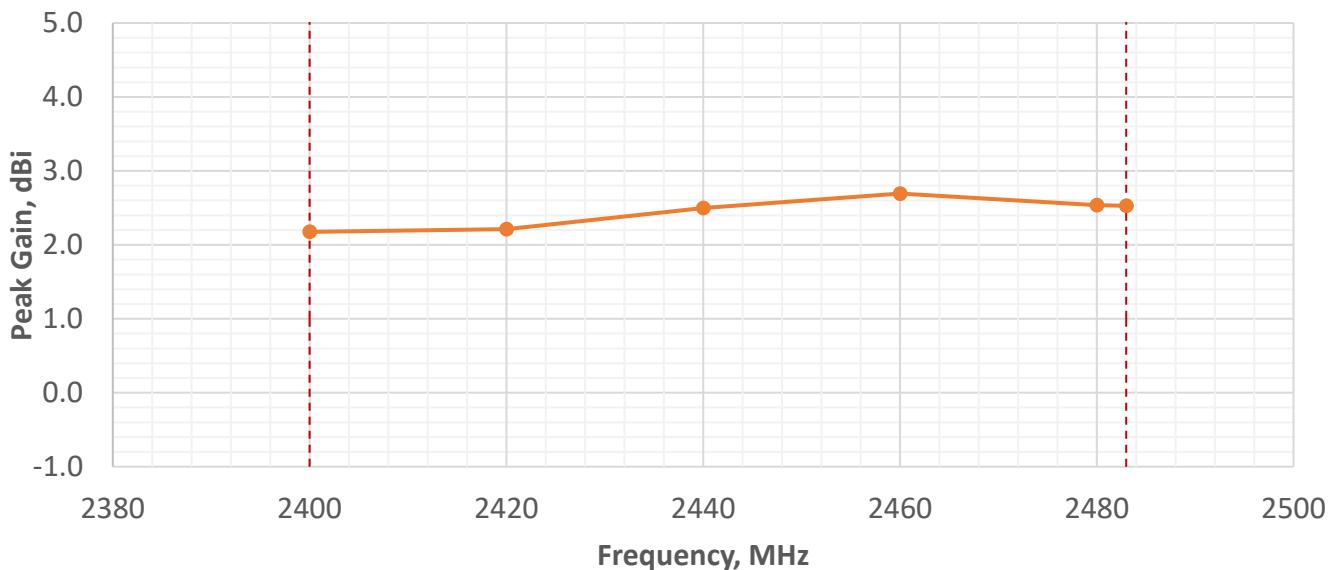
MECHANICAL	
Dimension, Ø x height (mm)	15.8 x 103
Weight (g)	20.2
Antenna Material	TPU Texin 950U
Antenna Color	Black
Connector	RP-SMA(M)

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

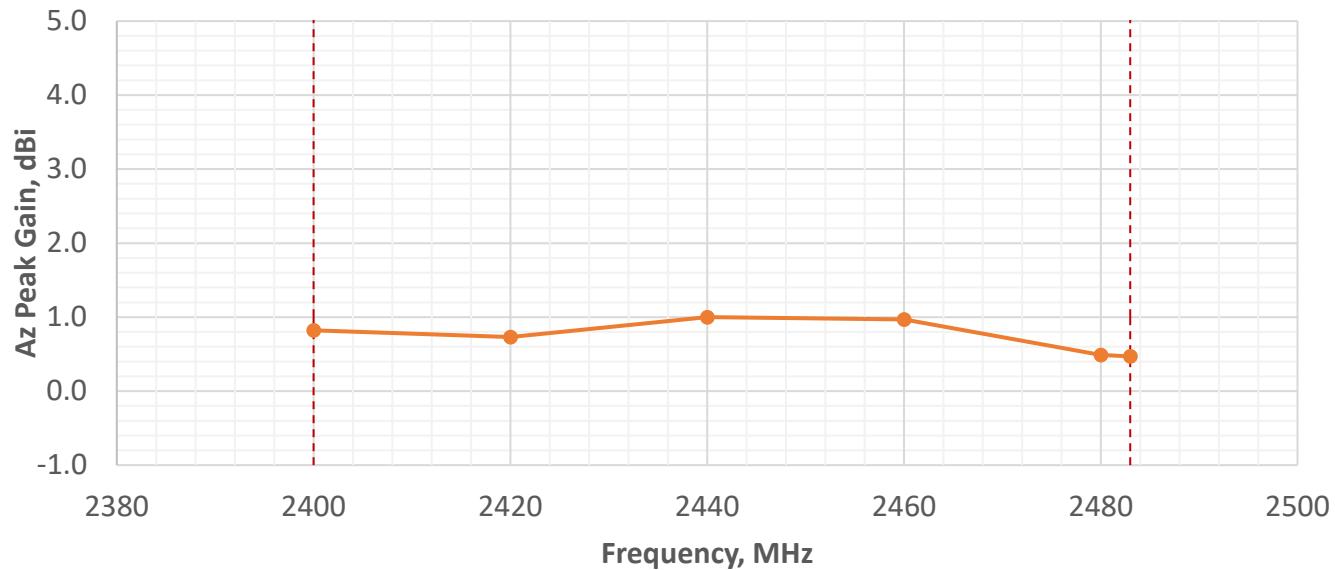
VSWR



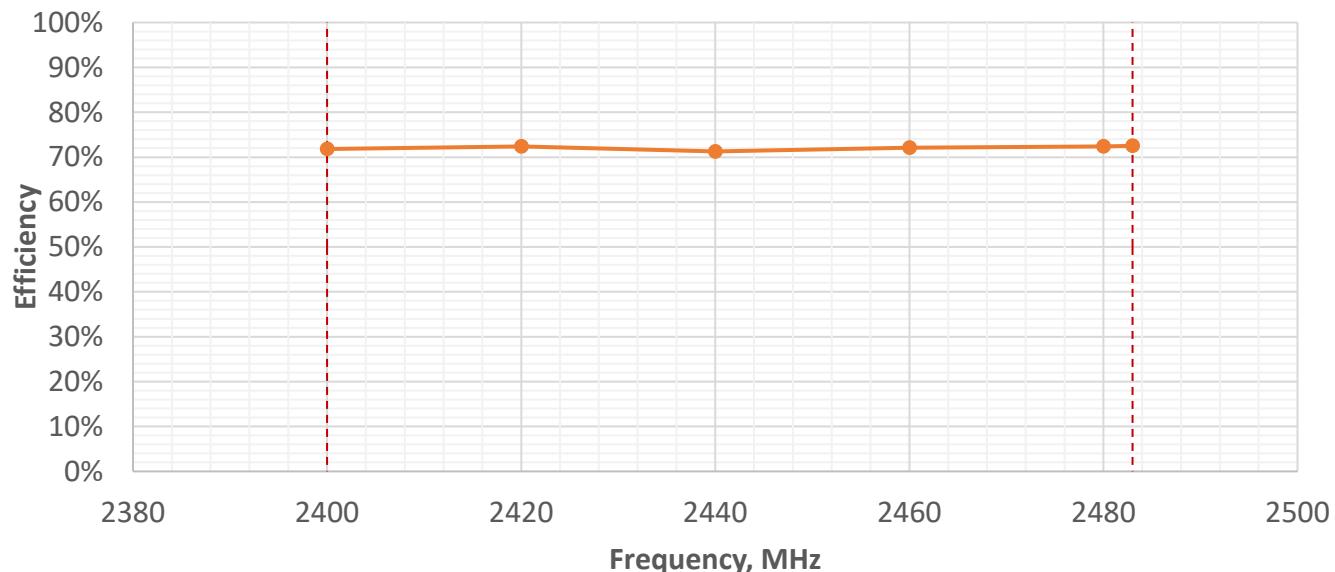
3D PEAK GAIN



AZIMUTH PEAK GAIN

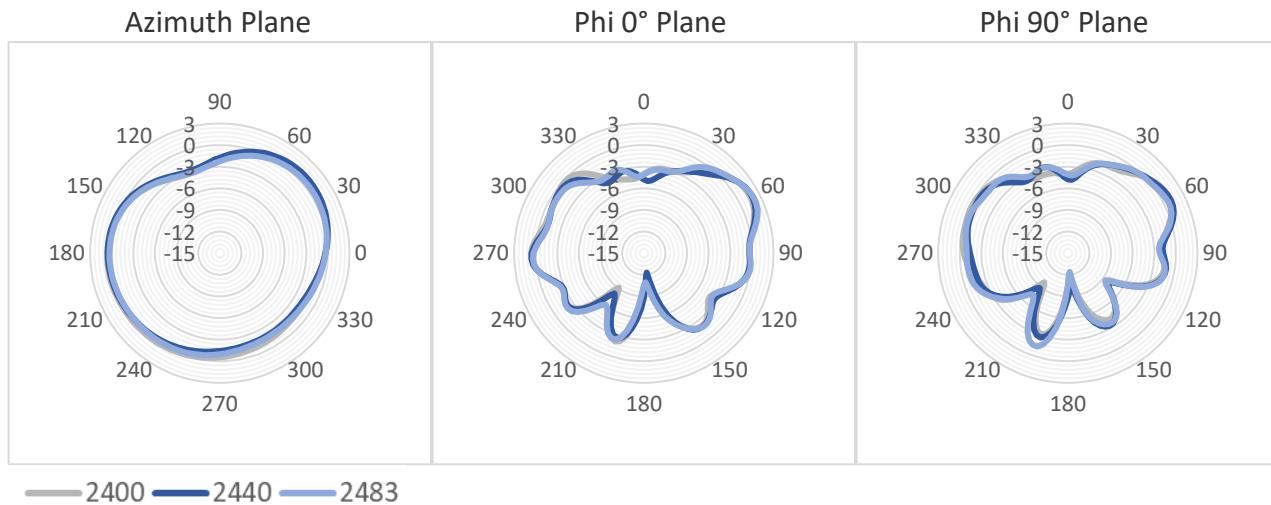


TOTAL EFFICIENCY

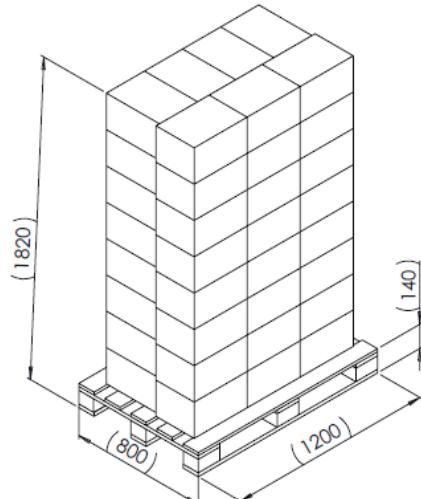
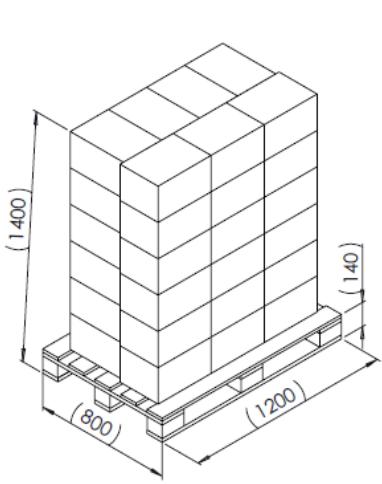


Radiation Patterns

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

te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may 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. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use suitability determinations, as well as any applicable compliance and regulatory requirements. 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.

©2025 TE Connectivity. All Rights Reserved.

04/25 Original