GSM/UMTS/GPS/WIFI ANTENNA

Antenna GSM/UMTS/GPS/WiFi
Screw Mount R41, 3x RG174/5m, open end

AO-AKOM-41O5

SECTRON company offers a wide portfolio of GSM/UMTS/GPS/WiFi antennas with various versions differing in shape, level of gain and manner of attachment. SECTRON guarantees a compatible connection between an antenna and all antenna adaptors produced by SECTRON.

BENEFITS

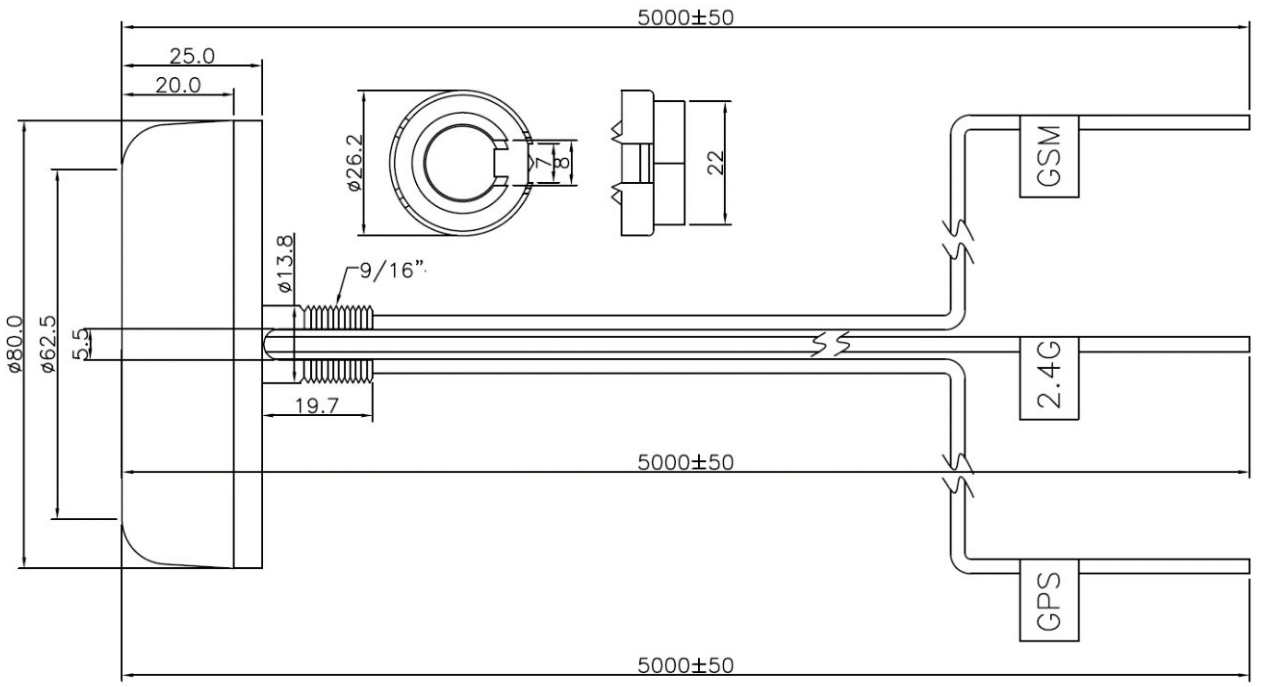
- Low VSWR
- Easy installation
- Gain

FEATURES

AO-AKOM-41O5

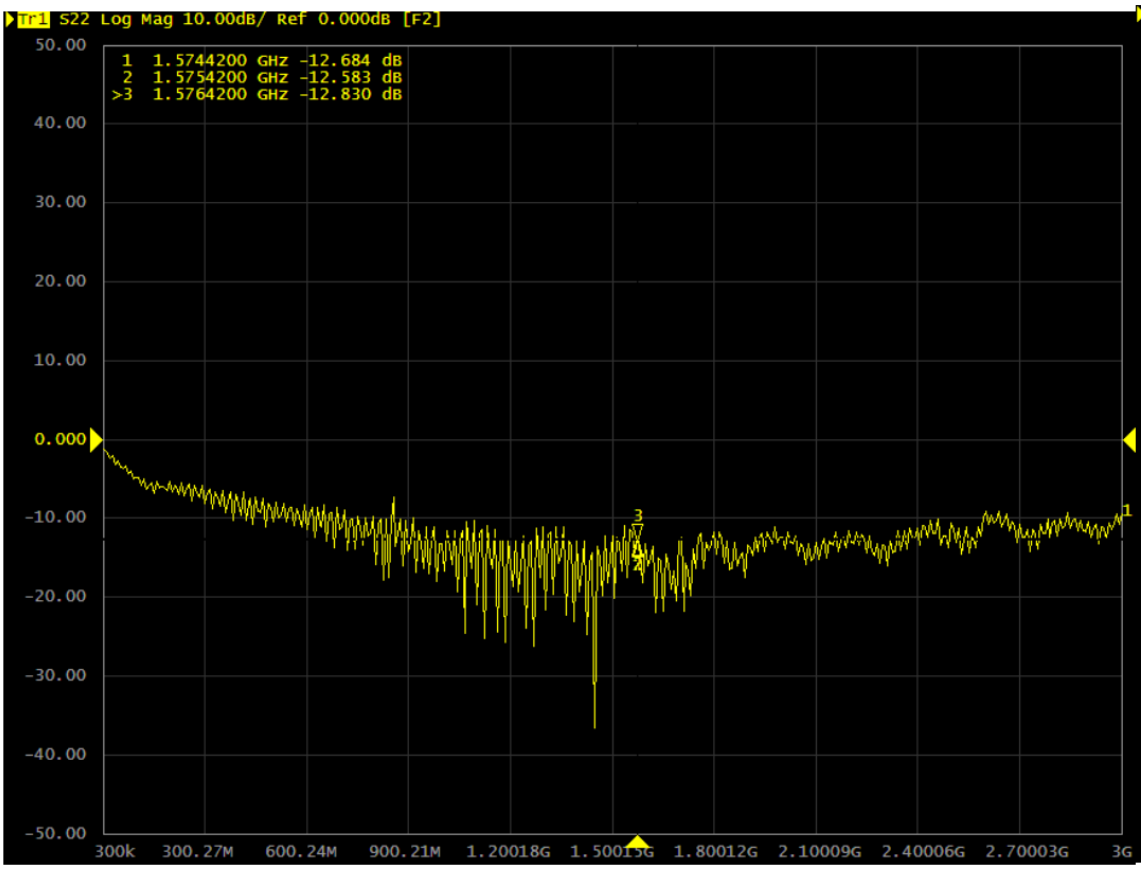
Technology	GSM/UMTS/WIFI/GPS
Frequency bands	900/1800/2100/2400/5800/1575.42 MHz
Bandwidth	-
Gain	0/2/0.5 dBi
LNA gain	29.5 dB
VSWR	<1.60:1
Impedance	50 Ohm
Directivity	Omnidirectional
Beam angle	Attached graphs bellow
Polarization	Linear/R.H.C.P
Maximum input power	10 W
Power voltage	2.5 - 5.5 V
Dimensions	Ø 80.0 x 25.0 mm
Weight	281.36 g
Operating temperature	-20 to +60 °C
Execution	External
Method of attachment	Screw Mount
Cable type	3x RG174/U
The cable length	3x 5 m
Connector type	-
Certification	RoHS

DRAWING

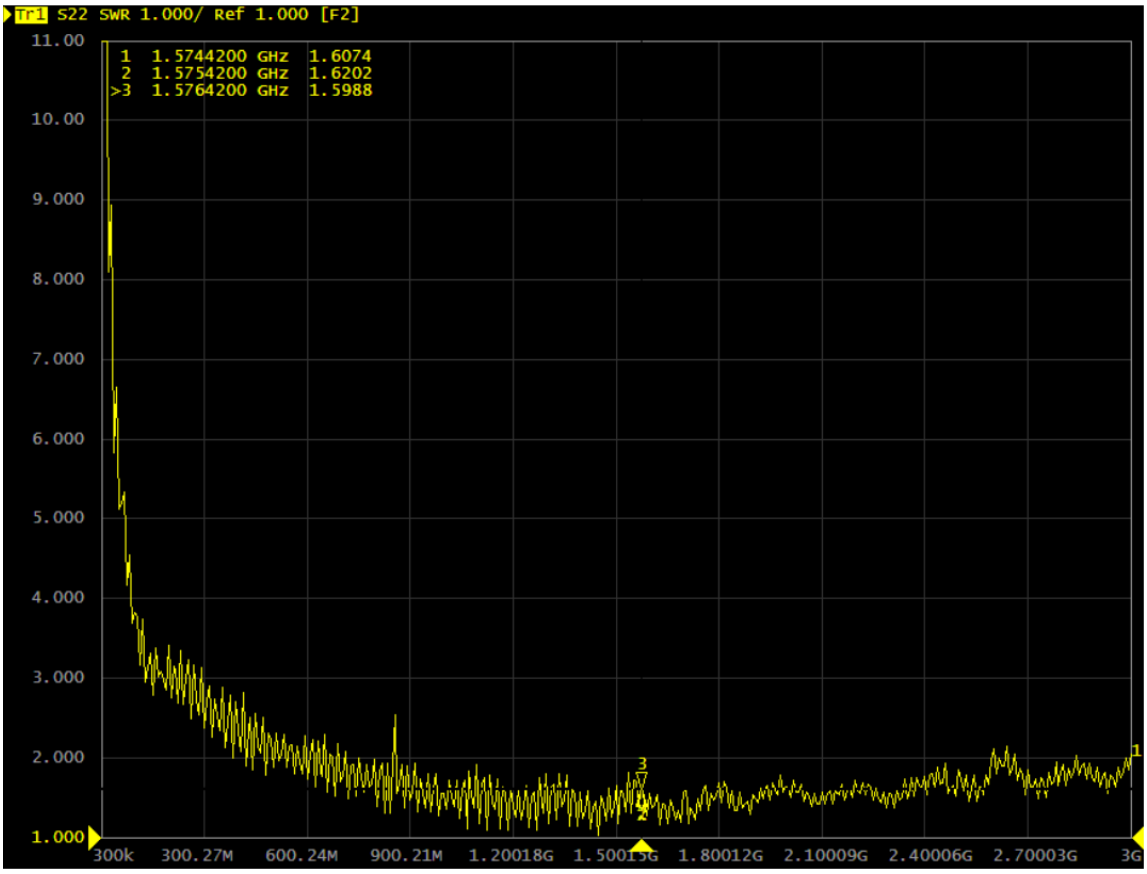


Unit: mm

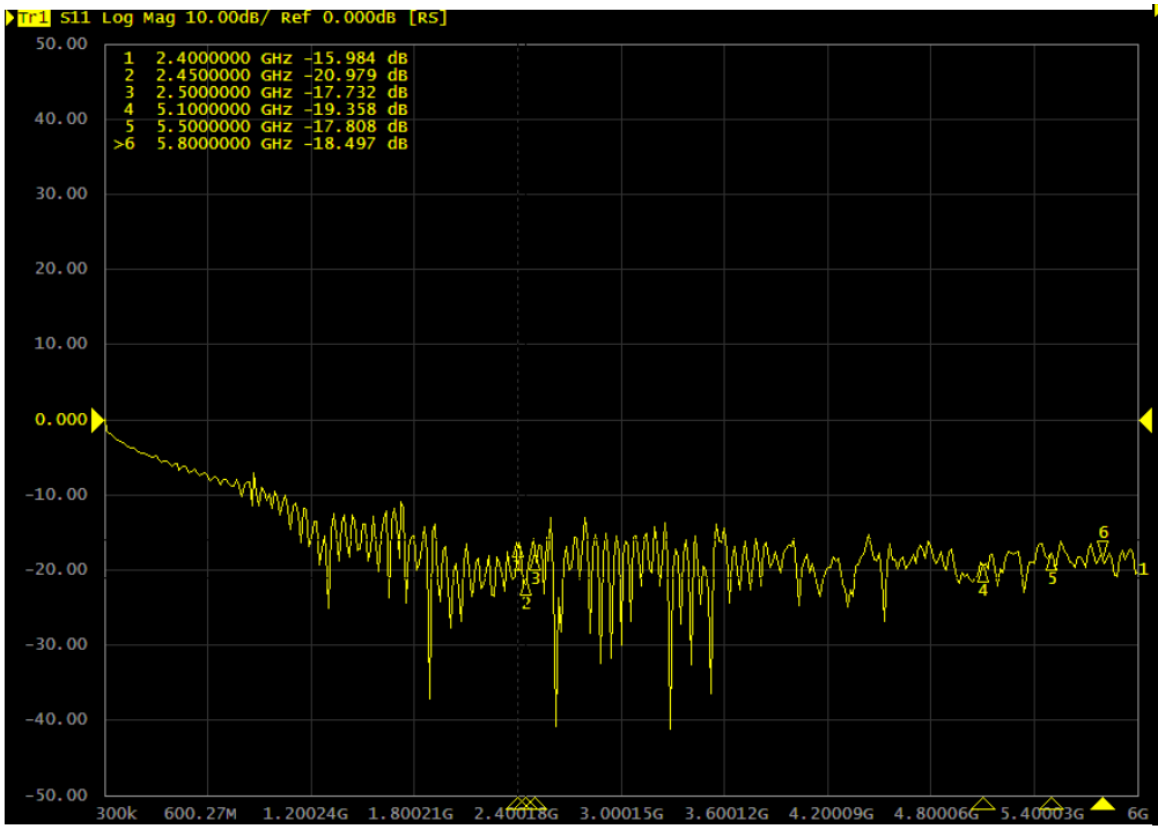
S_{11} - Return Loss [dB] (GPS)



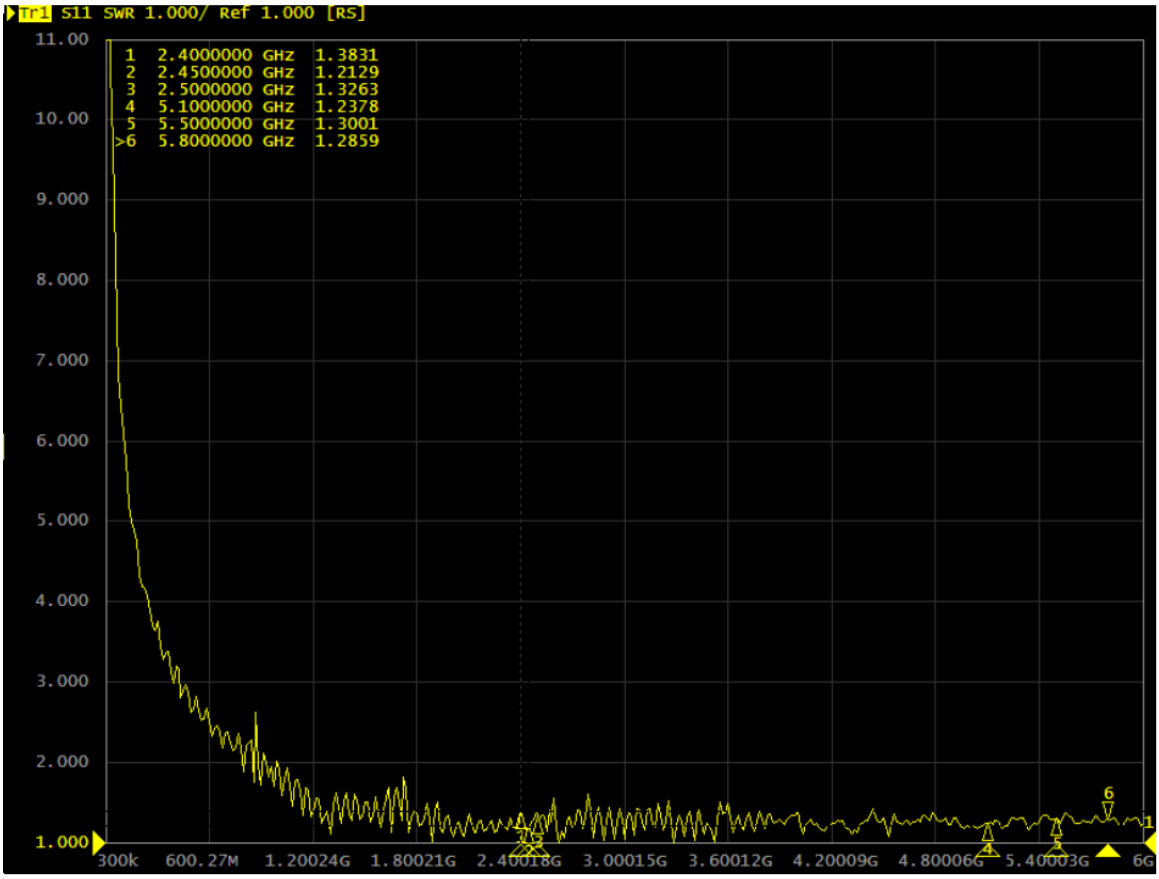
VSWR - Voltage standing wave ratio [-] (GPS)



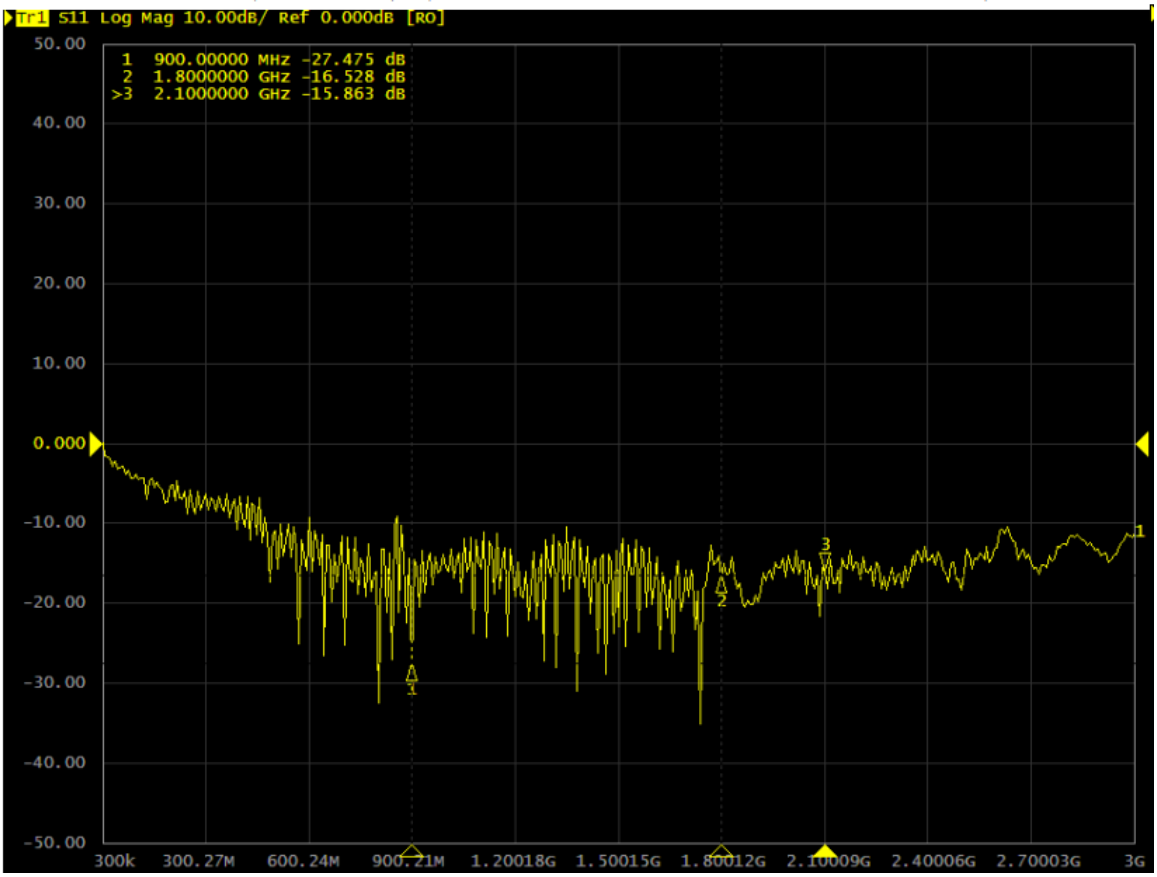
S_{11} - Return Loss [dB] (WiFi)



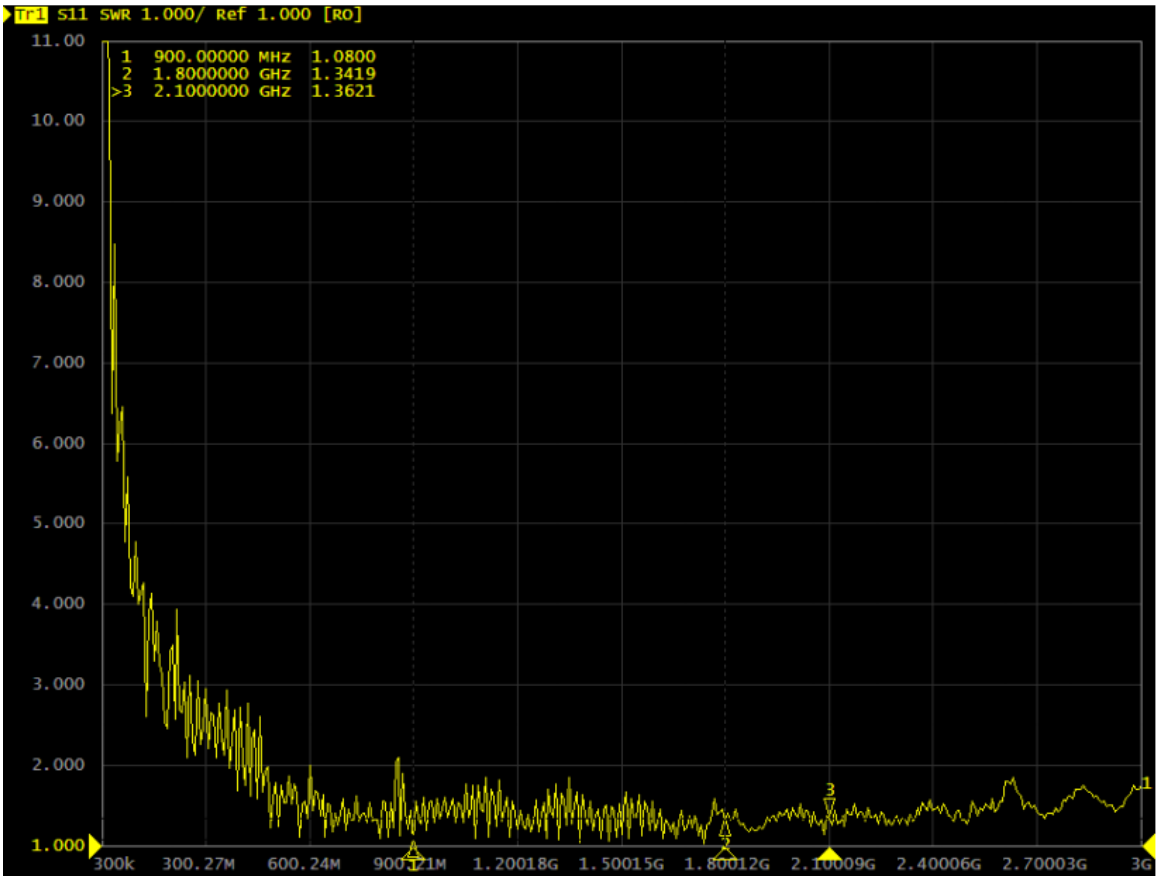
VSWR - Voltage standing wave ratio [-] (WiFi)



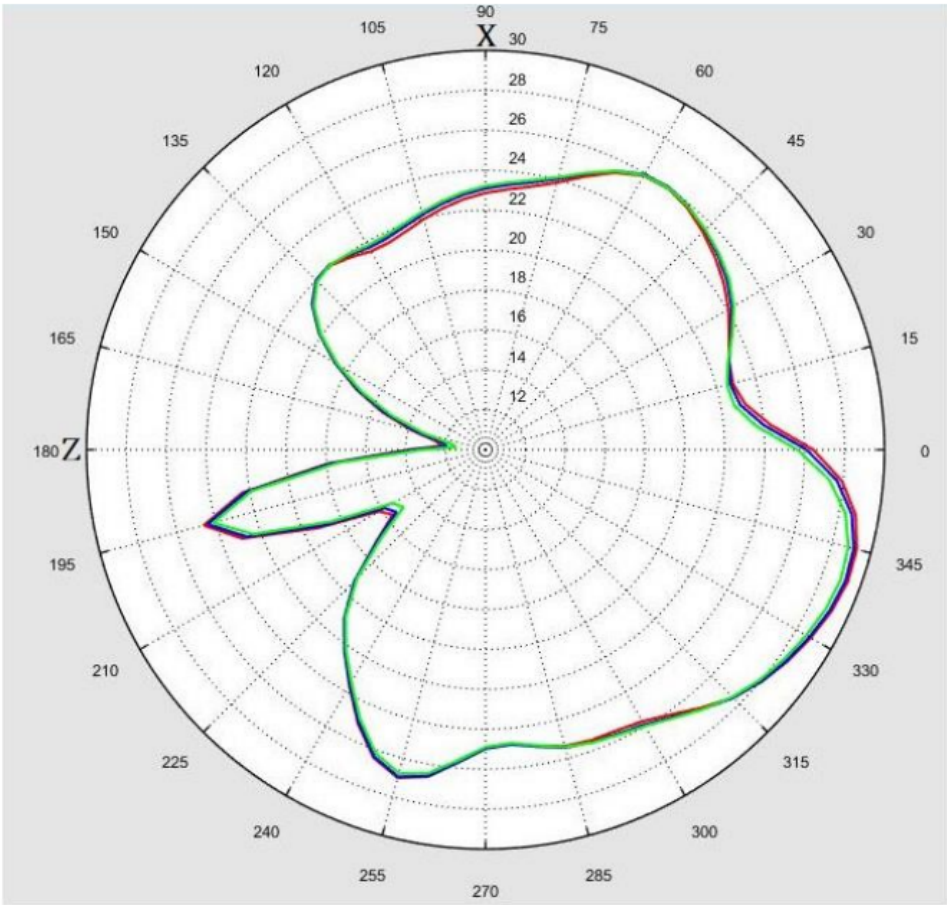
S_{11} - Return Loss [dB] (GSM)



VSWR - Voltage standing wave ratio [-] (GSM)

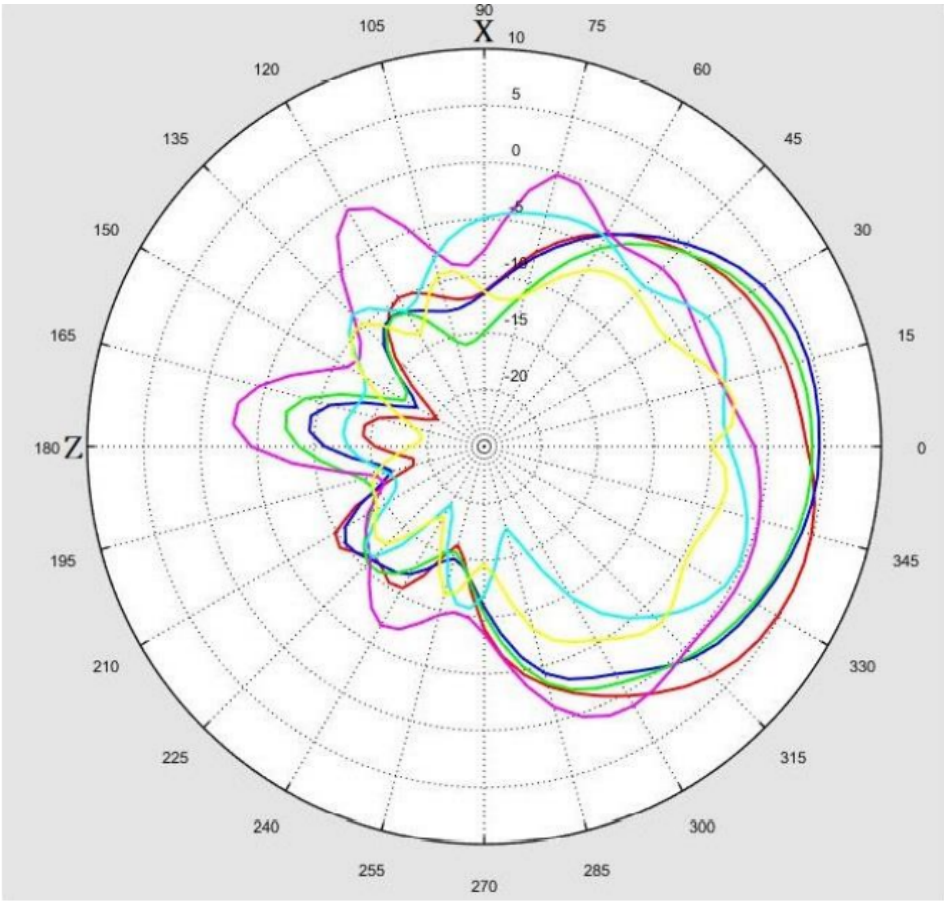


RADIATION PATTERN



Freq. / Chan.	Color
1.57442GHz	
1.57542GHz	
1.57642GHz	

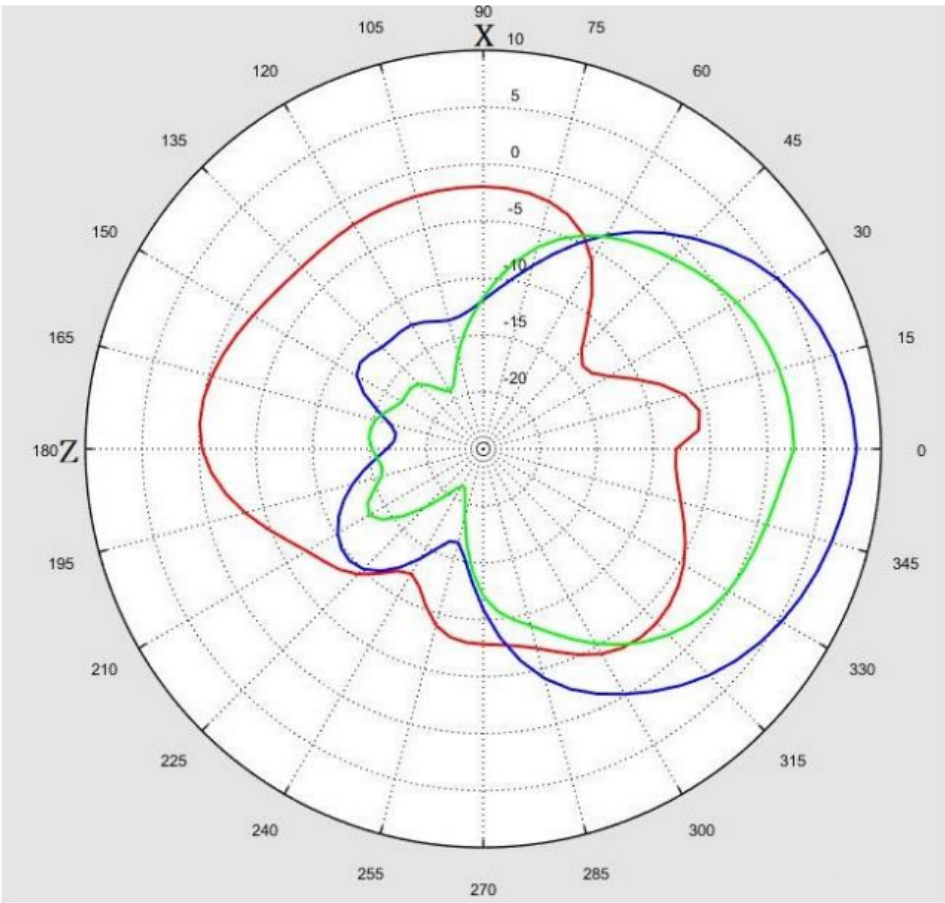
RADIATION PATTERN



Freq. / Chan.	Color
2.4GHz	
2.45GHz	
2.5GHz	
5.1GHz	
5.5GHz	
5.8GHz	

MEASURED GRAPHS

RADIATION PATTERN



Freq. / Chan.	Color
900MHz	
1.8GHz	
2.1GHz	

SUMMARY

Frequency [MHz]	S_{11} [dB]	VSWR [-]	Gain [dBi]	Efficiency [%]
1574.42	-12.68	1.60	32.16	-
1576.42	-12.83	1.59	31.88	-
900	-27.47	1.08	1.24	34.83
1800	-16.52	1.34	7.85	67.3
2100	-15.86	1.36	2.35	25.18
2400	-15.98	1.38	5.39	51.17
2450	-20.97	1.21	5.27	49.32
2500	-17.73	1.32	4.43	45.92
5100	-19.35	1.23	4.34	48.31
5500	-17.80	1.30	4.88	46.88
5800	-18.49	1.28	4.24	37.07

VARIANTS

Different connector variants or cable lengths are available on request.

CONTACTS

SECTRON s.r.o. Josefa Šavla 1271/12
709 00 Ostrava 9, Czech Republic

WWW.SECTRON.CZ
Tel.: +420 556 621 020