



The 901 series is a ground-independent, helical coil antenna, tuned for specific frequencies & technologies.

The helical coil allows the antenna to function well horizontal or vertical for seamless performance whether fix mounted or as a part of a device that moves. The ADA-901 series offers excellent performance in harsh environments. they are resistant to moisture, dust and vibration making excel in industrial and outdoor applications.

We can offer, in reasonable volume, basically any frequency band(s) up to 7GHz with cable lenght 30-500mm and connector options.

Typical versions supplied are ISM 433, 868, 868-925, 2.4, 2.4/5.0-5.9,, 5.9-7.1 (6E) and 3G/4G/5G (general description below as an example).

1. GENERAL DESCRIPTION 4G/Lte/5G version

Below is a table summarizing the antenna design specification

1.1 Electrical Properties

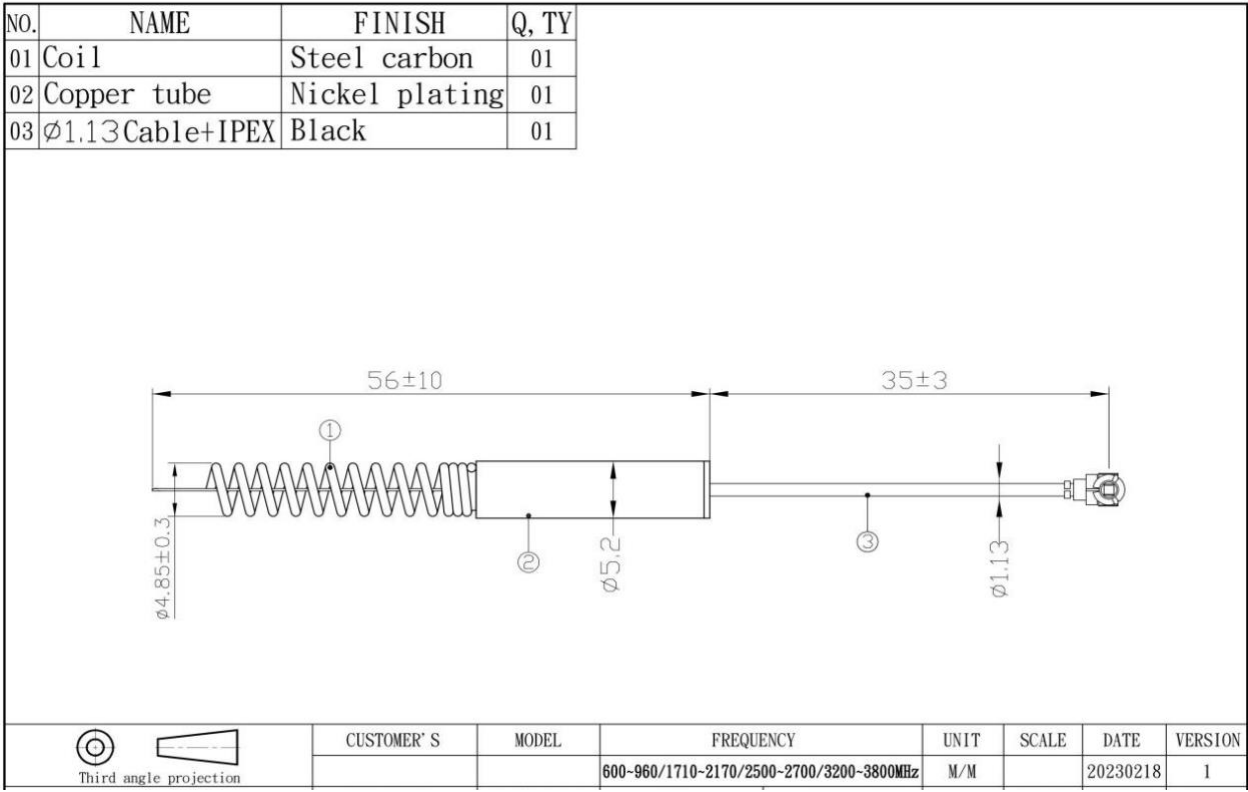
Parameter	Description
Frequency Band	600~960/1710~2170/2500~2700/3200~3800MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return loss	855.741MHz(-11.677dB),2130.903Mhz(-12.883dB) 3395.484Mhz(-13.120dB)
V.S.W.R	855.741MHz(1.705:1),2130.903Mhz(1.587:1) 3395.484Mhz(1.567:1)
Reflection coefficient	855.741MHz(0.261),2130.903Mhz(0.227) 3395.484Mhz(-0.221)

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Antenna length	56mm
Cable Type	Ø1.13 mmCable
Cable length	35mm
Connector Type	IPEX (U.FL)
Antenna Color	Black

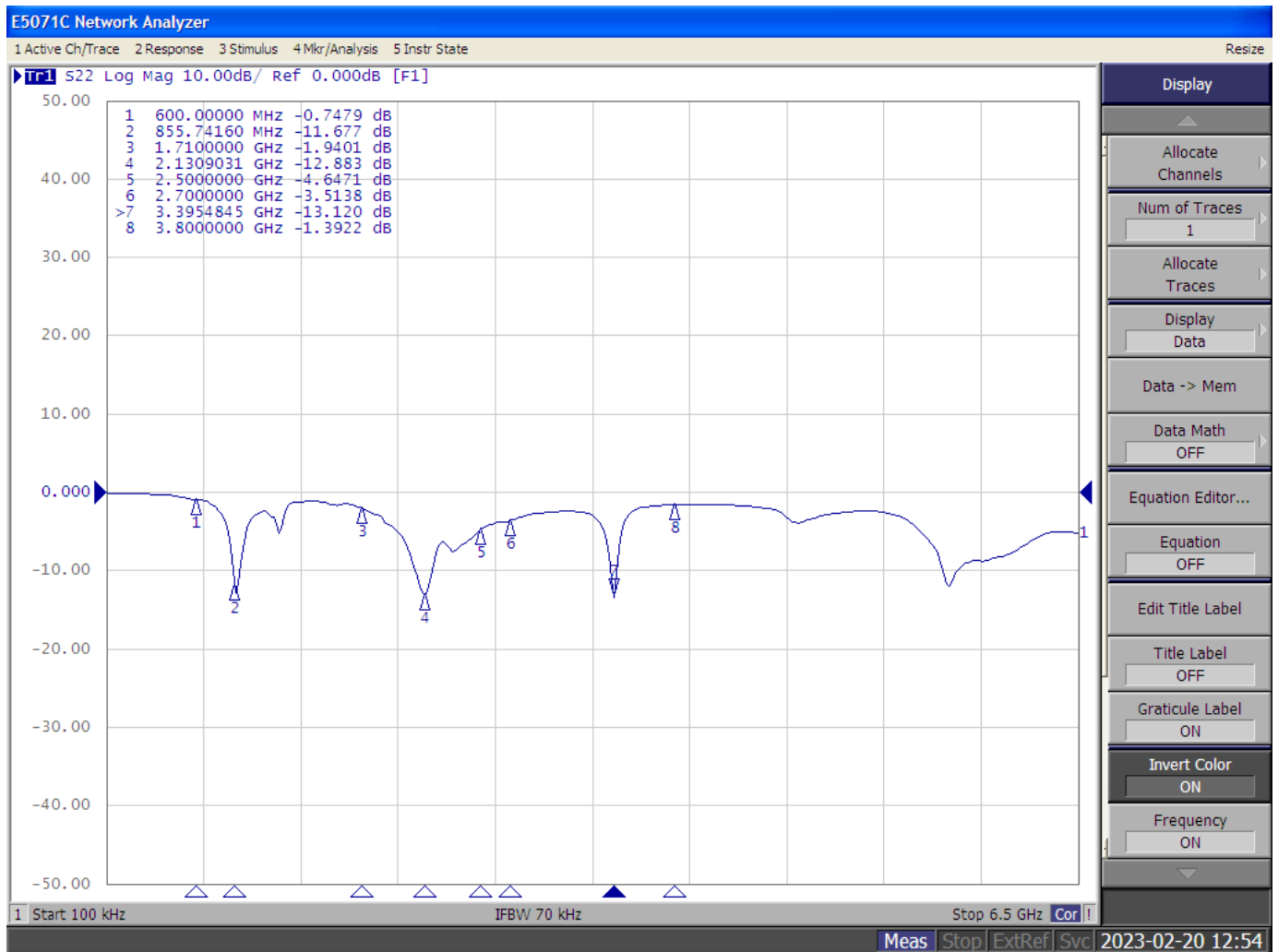
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-35°C~+75°C

2. Appearance

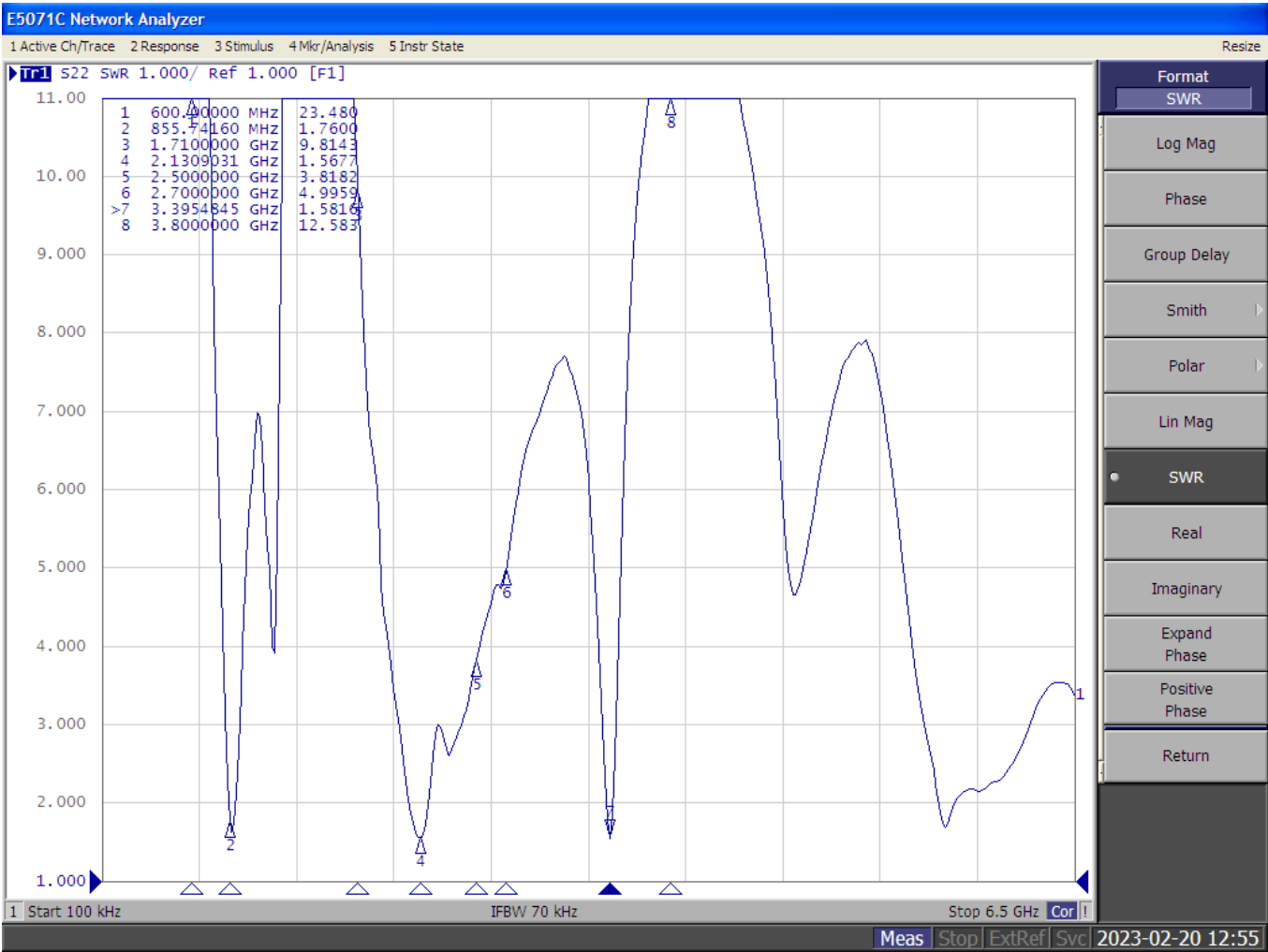


3. Frequency :600~960/1710~2170/2500~2600/3200~3800MHz

3-1 Log Mag Returnloss



3-2 V.S.W.R



3-3 smith (R+jx)

