



Roof 9-in-1 4x 5GNR MIMO, 4x WiFi-6E MIMO and GNSS Screw Antenna

Description

Technologies 5G, 4G, 3G and 2G

Standards 5GNR/4GLTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G

Frequency 617-960, 1427-2690, 3300-5000, 5150-5925

Return Loss (dB) \sim -14.2, \sim -15.4, \sim -18.3, \sim -9.2

VSWR \sim 1.6:1, \sim 1.6:1, \sim 1.3:1, \sim 2.1:1

Efficiency (%) \sim 40.0, \sim 45.7, \sim 44.2, \sim 36.8

Peak Gain (dBi) \sim 3.0, \sim 5.0, \sim 4.6, \sim 5.0

Impedance (Ohm) 50

Polarisation Linear

Radiation Pattern Omni-Directional

Max. Input Power (W) 25

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Frequency 617-960, 1427-2690, 3300-5000, 5150-5925

Return Loss (dB) \sim -12.8, \sim -15.3, \sim -18.5, \sim -10.8

VSWR \sim 1.9:1, \sim 1.6:1, \sim 1.4:1, \sim 1.9:1

Efficiency (%) \sim 34.1, \sim 48.2, \sim 43.7, \sim 37.8

Peak Gain (dBi) \sim 1.1, \sim 4.8, \sim 5.1, \sim 5.0

Impedance (Ohm) 50

Polarisation Linear

Radiation Pattern Omni-Directional

Max. Input Power (W) 25

Technologies 5G, 4G, 3G and 2G

Standards 5GNR/4GLTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G

Frequency 617-960, 1427-2690, 3300-5000, 5150-5925

Return Loss (dB) \sim -12.7, \sim -14.6, \sim -19.7, \sim -13.5

VSWR \sim 1.9:1, \sim 1.6:1, \sim 1.3:1, \sim 1.6:1

Efficiency (%) \sim 36.4, \sim 45.6, \sim 41.2, \sim 38.7

Peak Gain (dBi) \sim 3.0, \sim 4.9, \sim 4.5, \sim 4.8

Impedance (Ohm) 50
Polarisation Linear
Radiation Pattern Omni-Directional
Max. Input Power (W) 25
Technologies 5G, 4G, 3G and 2G
Standards 5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G
Frequency 617-960, 1427-2690, 3300-5000, 5150-5925
Return Loss (dB) ~-11.8, ~-15.4, ~-20.5, ~-12.8
VSWR ~1.9:1, ~1.5:1, ~1.3:1, ~1.6:1
Efficiency (%) ~35.8, ~55.4, ~51.0, ~44.6
Peak Gain (dBi) ~2.3, ~5.1, ~5.2, ~5.0

Impedance (Ohm) 50
Polarisation Linear
Radiation Pattern Omni-Directional
Max. Input Power (W) 25
Standards WiFi, BT, ZigBee, ISM, SigFox, LoRa
Frequency 2410-2490, 4920-5925, 5925-7125
VSWR ~1.5:1, ~1.2:1, ~1.5:1
Efficiency (%) ~55.6, ~51.9, ~37.5
Peak Gain (dBi) ~4.3, ~6.7, ~6.3

Impedance (Ohm) 50
Polarisation Linear
Max. Input Power (W) 25
Standards WiFi, BT, ZigBee, ISM, SigFox, LoRa
Frequency 2410-2490, 4920-5925, 5925-7125
VSWR ~1.5:1, ~1.2:1, ~1.6:1
Efficiency (%) ~50.0, ~49.7, ~41.1
Peak Gain (dBi) ~4.1, ~6.8, ~6.1

Impedance (Ohm) 50
Polarisation Linear
Max. Input Power (W) 25
Standards WiFi, BT, ZigBee, ISM, SigFox, LoRa
Frequency 2410-2490, 4920-5925, 5925-7125
VSWR ~1.5:1, ~1.2:1, ~1.6:1
Efficiency (%) ~58.0, ~49.7, ~36.5
Peak Gain (dBi) ~4.4, ~6.7, ~5.6

Impedance (Ohm) 50
Polarisation Linear
Max. Input Power (W) 25
Standards WiFi, BT, ZigBee, ISM, SigFox, LoRa
Frequency 2410-2490, 4920-5925, 5925-7125
VSWR ~1.6:1, ~1.3:1, ~1.5:1
Efficiency (%) ~52.2, ~44.0, ~33.8
Peak Gain (dBi) ~4.2, ~8.0, ~6.6

Impedance (Ohm) 50
Polarisation Linear
Max. Input Power (W) 25

Standards GPS/GLONASS/BeiDou/QZSS/Galileo
Frequency 1561.098, 1575.42, 1598-1606
Passive Gain (dBi) ~4.2, ~4.5, ~5.0
Impedance (Ohm) 50
Radiation Pattern Hemispherical
Voltage Range (V) 1.5 – 3.6
Active Gain (dB) 28 @ 2.7 V
Noise Figure (dB) 1.8 @ 2.7 V
Current Consumption (mA) 9 @ 2.7 V
Power Consumption (mW) 24.3 @ 2.7 V
Saw Filter Type Pre-Filter
Out of Band Rejection (dB) 43
ESD Protection (kV) 6

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Author

nick