

**BOSCH**

2.4 GHz 3 dBi Antenna

MODEL: RA-3**PART No:** 302054003

General Description

This is a 2.4 GHz, 3 dBi gain, omni-directional pattern “rubber duck” antenna. Tilt and swivel reverse polarity TNC connector.

Specifications

Electrical

Frequency	2.4 GHz – 2.5 GHz
Antenna Gain	3 dBi
Horizontal Pattern	Omni-directional
Vertical Pattern	70° (-3 dB bandwidth)
VSWR	< 2:1
Polarization	Vertical, Linear
Impedance	50 Ohm

Mechanical

Connector	Reverse Polarity TNC Plug
Length	5.6” (143 mm)
Diameter	0.5” (13 mm)
Weight	0.81 oz. (23 g)
RoHS	Compliant
Operating Temperature	-40° C to 85° C (-40° F to 185° F)

Bosch Security Systems reserves the right to make specification changes without notice.

**BOSCH**

2.4 GHz 5 dBi Antenna

MODEL: RA-5**PART No:** 302054005

General Description

Indoor / Outdoor 2.4 GHz, 5 dBi gain, omni-directional pattern magnetic mount antenna with TNC reverse polarity coupler.

Specifications

Electrical

Frequency	2.4 GHz – 2.5 GHz
Antenna Gain	5 dBi
Horizontal Pattern	Omni-directional
Vertical Pattern	30° (-3 dB bandwidth)
VSWR	< 2:1
Polarization	Vertical, Linear
Impedance	50 Ohm

Mechanical

Connector (On antenna pigtail)	Reverse Polarity TNC Plug
Length	6" (152.4 mm)
Weight	1.0 lbs. (0.45 kg)
RoHS	Compliant
Operating Temperature	-40° C to 85° C (-40° F to 185° F)

Bosch Security Systems reserves the right to make specification changes without notice.

**BOSCH**

2.4 GHz 7 dBi Antenna

MODEL: RA-7**PART No:** 302054004

General Description

A 2.4 GHz, 7 dBi gain, omni-directional pattern “rubber duck” antenna with tilt and swivel reverse polarity TNC connector on antenna.

Specifications

Electrical

Frequency	2.4 GHz – 2.5 GHz
Antenna Gain	7 dBi
Horizontal Pattern	Omni-directional
Vertical Pattern	30° (-3 dB bandwidth)
VSWR	< 1.5:1
Polarization	Vertical, Linear
Impedance	50 Ohm

Mechanical

Connector	Reverse Polarity TNC Plug
Length	15.2” (388 mm)
Diameter	0.5” (13 mm)
Weight	2.1 oz. (60 g)
RoHS	Compliant
Operating Temperature	-40° C to 60° C (-40° F to 140° F)

Bosch Security Systems reserves the right to make specification changes without notice.

**BOSCH**

2.4 GHz 11 dBi Patch Antenna

MODEL: FP-11**PART No:** 302054006

General Description

Indoor / Outdoor 2.4 GHz, 11 dBi gain, directional antenna TNC reverse polarity coupler. The antenna may be mounted in the vertical or horizontal polarity position.

Specifications

Electrical

Frequency	2.4 GHz – 2.5 GHz
Antenna Gain	11 dBi
Horizontal Pattern	60° (-3 dB bandwidth)
Vertical Pattern	35° (-3 dB bandwidth)
VSWR	< 1.5:1
Polarization	Vertical or Horizontal
Impedance	50 Ohm

Mechanical

Connector (Antenna pigtail)	Reverse Polarity TNC Plug
Size	8.5 x 8.5 x 1 (in), 216 x 216 x 26 (mm)
Weight	0.95 lbs. (0.43 kg)
Mounting	Four ¼" (6.3 mm) holes
RoHS	Compliant
Operating Temperature	-40° C to 85° C (-40° F to 185° F)

Bosch Security Systems reserves the right to make specification changes without notice.

**BOSCH**

2.4 GHz 11 dBi Dual Patch Antenna

MODEL: ANT-FP**PART No:** 302054001

General Description

Indoor / Outdoor 2.4 GHz, 11 dBi gain, dual patch, directional antenna with two TNC reverse polarity couplers. The antenna contains a vertical patch antenna along with a horizontal patch antenna under one radome. The antenna may be mounted in the vertical or horizontal polarity position with respect to antenna 1, the other antenna will be in the opposite polarity.

Specifications

Electrical

Frequency	2.4 GHz – 2.5 GHz
Gain (Each antenna under radome)	11 dBi
Horizontal Pattern (Antennas 1 and 2)	60° (-3 dB bandwidth)
Vertical Pattern (Antennas 1 and 2)	30° (-3 dB bandwidth)
VSWR	< 1.5:1
Polarization	Horizontal (Left Antenna Lead) Vertical (Right Antenna Lead)
Impedance	50 Ohm

Mechanical

Connector (Antenna pigtails)	Reverse Polarity TNC Plug
Size	8.5 x 8.5 x 1 (in), 216 x 216 x 26 (mm)
Weight	0.95 lbs. (0.43 kg)
Mounting	Four ¼" (6.3 mm) holes
RoHS	Compliant
Operating Temperature	-40° C to 85° C (-40° F to 185° F)

Bosch Security Systems reserves the right to make specification changes without notice.