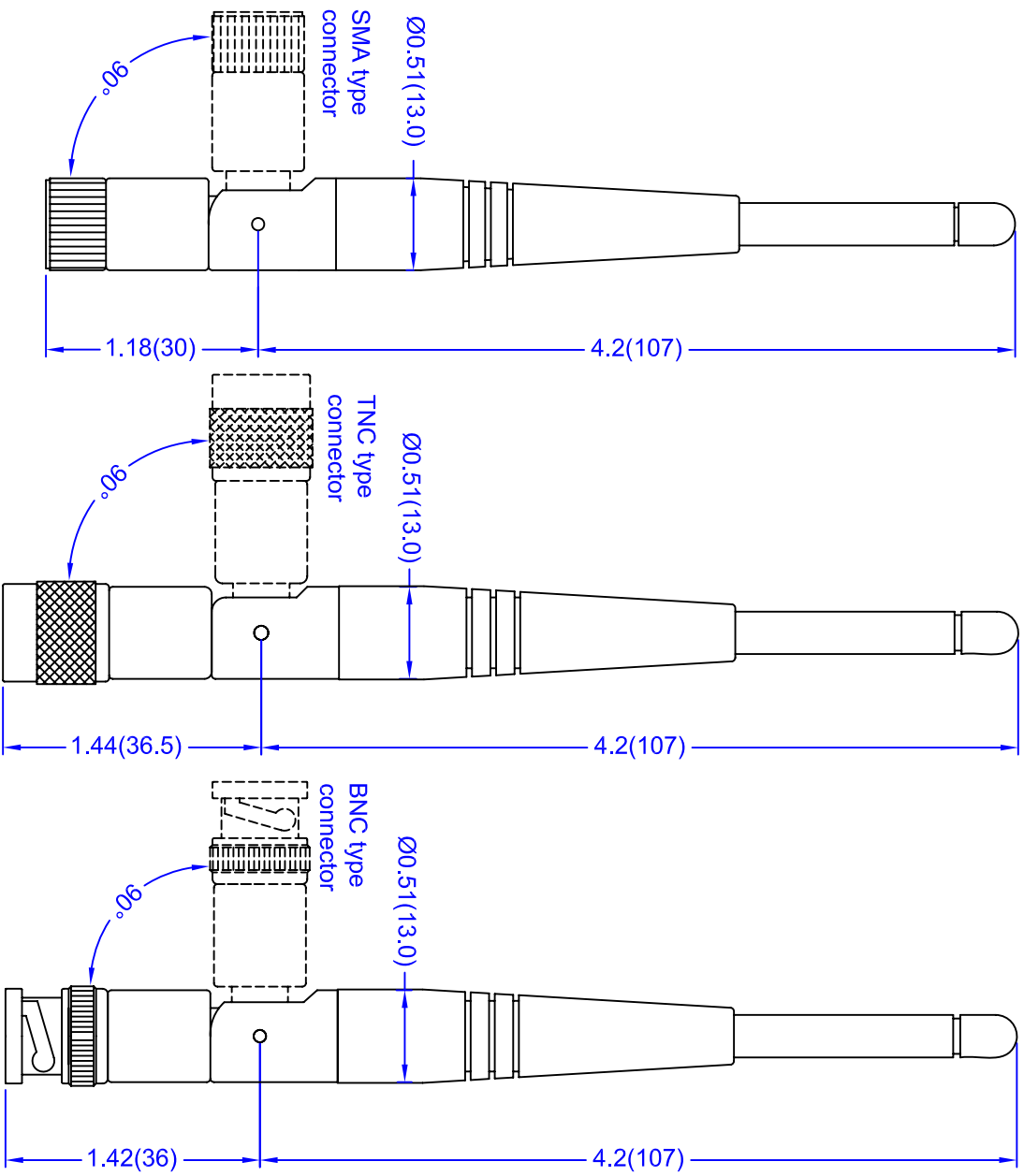




Electrical Properties:

- Frequency Range: 2.4~2.5 GHz
- Impedance: 50Ω nominal
- V/SWR: <2.0:1
- Gain: 2 dBi
- Radiation: Omni
- Polarization: Vertical
- Wave: Half Wave Dipole

Mechanical Properties:

- Material: Polyurethane(Black)
- Whip: Polycarbonate(Black)
- Swivel Mechanism: Brass with black chrome plating
- Connector: Connector
- Operation Temp.: -20°C to +65°C
- Storage Temp.: -30°C to +75°C
- This is a RoHS compliant product.

TITLE		2.4GHz Swivel Antenna-181 Model		Rev. Date	SHEET
UNIT		DWG. NO.	S181XX - 2450S	01/22/06	1 of 2
in.(mm)		NEARSON			
SCALE					
1:1					

NEARSON

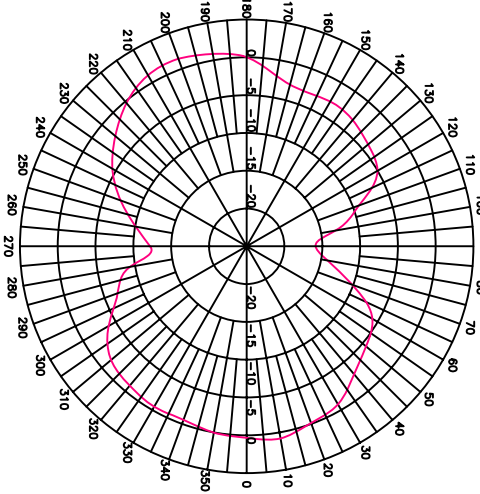
Series Part Numbers

Connector Code -XX-	Description	P / N
AM	SMA Plug	S181AM-2450S
AH	SMA Plug Reverse Polarity	S181AH-2450S
TC	TNC Plug	S181TC-2450S
TR	TNC Plug Reverse Polarity	S181TR-2450S
BC	BNC Plug	S181BC-2450S
BR	BNC Plug Reverse Polarity	S181BR-2450S

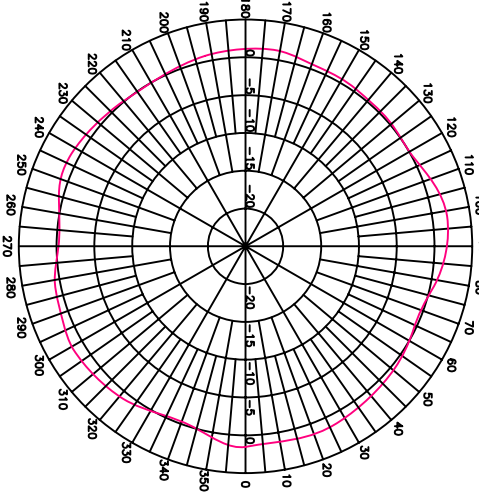
Connector Interface

 SMA Plug (AM)	 TNC Plug (TC)	 BNC Plug (BC)
 SMA Plug Reverse Polarity (AH)	 TNC Plug Reverse Polarity (TR)	 BNC Plug Reverse Polarity (BR)

E-Plane Pattern @ 2.45GHz



H-Plane Pattern @ 2.45GHz



TITLE		2.4GHz Swivel Antenna-181 Model	Rev. Date	SHEET
UNIT		DWG. NO.	01/22/06	2 of 2
SCALE		S181XX - 2450S		
none				

NEARSON

PA2400/PA2410 PATCH ANTENNAS

OMNI DIRECTIONAL GAIN ANTENNAS

Specifications	Model # PA2400	Model # PA2410
Frequency Bandwidth	2.4 - 2.5 GHz	2.4 - 2.5 GHz
Antenna Type	Patch	Patch
Gain	6dBi	2dBi
V. S. W. R.	<1.9:1	<1.9:1
Nominal Impedance	50 Ohms	50 Ohms
Radiation Pattern	Directional	Directional
Polarization	Linear	Linear
Connector	Huber-Suhner Type 81 MMCX-50-0-1 Plug	Huber-Suhner Type 81 MMCX-50-0-1 Plug



PA2400



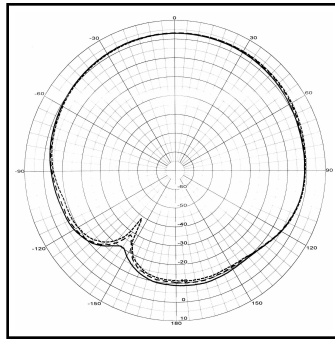
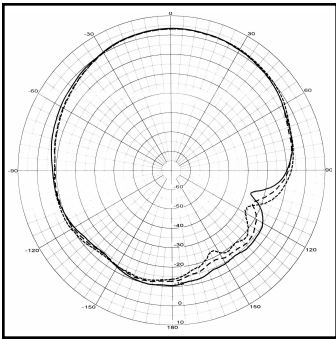
PA2400



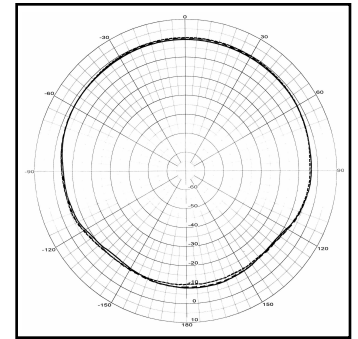
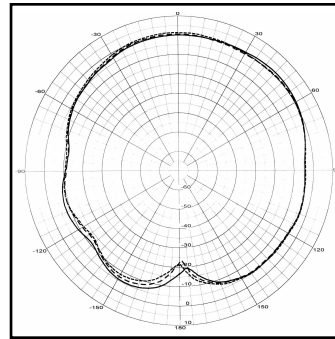
PA2410



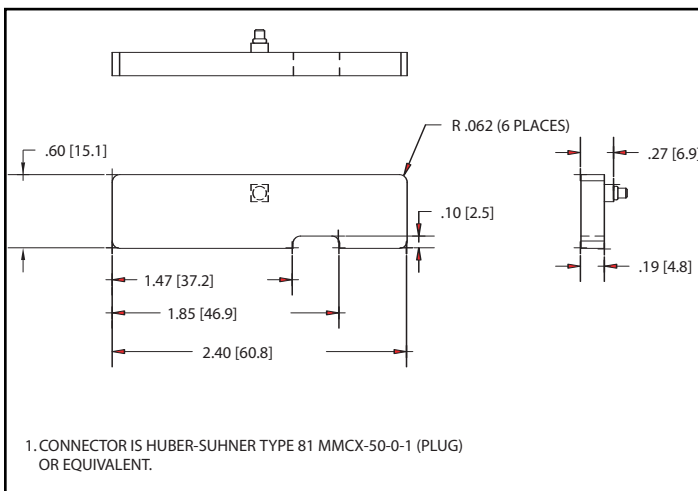
PA2410



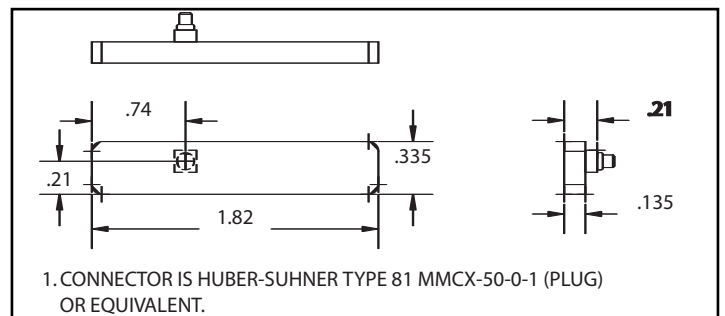
E Plane PA2400 Plots H Plane



E Plane PA2410 Plots H Plane



PA2400



PA2410





SCR12-2400
Large Corner Reflector



SCR9-2400
Mini Corner Reflector

Directional, Corner Reflector WiFi 2.4 & 5 GHz

- Available in 9-12 dBi gain; efficient Front to Back ratio
- Efficient Point-to-Point coverage
- Small aperture; minimizes wind loading
- Split balun feed provides superior bandwidth & gain performance

Mobile Mark's WiFi Corner Reflector antennas provide efficient point-to-point and point-to-multipoint coverage for remote monitoring, surveillance or mesh networks.

A SCR Series corner reflector antenna consists of a half-wave element, spaced approximately a quarterwave length in front of a reflector panel. The reflector panel serves to narrow both the horizontal and vertical pattern for increased gain and directivity.

This antenna design is able to provide excellent gain performance without sacrificing bandwidth. Cable Assemblies are available from Mobile Mark.

Model #	Gain	Frequency
SCR9-2400-WHT	9 dBi	2300-2600 MHz
SCR12-2400-WHT	12 dBi	2300-2600 MHz
SCR10-5250-WHT	10 dBi	5.15-5.35 GHz
SCR12-5725-WHT	12 dBi	5.72-5.93 GHz
SCR-2400/5500-WHT	9 dBi & 12 dBi	Dualband 2.4-2.5 GHz & 4.9-6.0 GHz

Color options available for above models
 WHT-White or BLK-Black

Specifications

Frequency:	See above
Gain:	See above
VSWR:	2:1 max over band
Impedance:	50 Ohm nominal
Max Wind Velocity:	125+ mph (193 kph)
Operating Temp:	-40° to +85° C
Material:	Powder-coated aluminum, ASA plastic radome
SCR9-2400, SCR12-2400, SCR10-5250, SCR12-5725	
Maximum Power	100 Watts
Front-to-Back ratio	22 dB or better
Lightning Protection	DC grounded, external protection recommended
SCR-2400/5500	
Maximum Power	10 Watts
Front-to-Back ratio	30 dB or better
Lightning Protection	NA, external recommended
SCR9-2400, SCR10-5250, SCR12-5725, SCR-2400/5500	
Aperture	3" x 5.5" (76 mm x 140 mm)
Panel Size	3" x 3" ea (76 mm x 76 mm)
Weight	1 lb (0.5 kg)

SCR12-2400	
Aperture	7" x 10.5" (178 mm x 266 mm)
Panel Size	7" x 7" (178 mm x 178 mm)
Weight	2.2 lbs (1 kg)
Beamwidth:	
SCR9-2400	78° El, 60° Az
SCR12-2400	50° El, 36° Az
SCR10-5250	57° El, 30° Az
SCR12-5725	75° El, 26° Az
SCR-2400/5500	
2.4 - 2.5 GHz	45° El, 35° Az
4.9 - 6.0 GHz	35° El, 25° Az
Pole Mounting:	Hardware included
Mounting Dimension:	Mounts up to 2" (51 mm) out side diameter (OD) mast Exception: SCR12-2400 mounts up to 2.5" (64 mm) OD mast
Connector:	N Jack (Female), attached at rear of antenna
Shock & Vibration:	EN 300 019-2-4, IEC 60068

SCR Series Antennas

Directional Corner Reflector

9 dBi, 2300 - 2600 MHz

