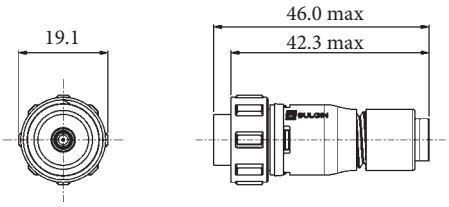
400 Series - SMB Buccaneer

- Sealed to IP68 when mated
- 50Ω Impedance SMB connector
- Frequency range 0-4GHz
- Contact resistance
  - centre - 6mΩ max.
  - outer - 2.5mΩ max.
- Gold plated contacts
- Diameter over coupling ring 19mm
- Body moulding, Nylon UL94-V0 rated
- Two versions of Flex Connector
  - re-wireable
  - pre-wired - lengths 1m, 3m & 5m
- Panel connector
  - pre-wired - lengths 0.5m,1m & 1.5m
- Cable accommodation (flex re-wireable), RG-174
- Cable type (pre-wired connectors), RG-174

Re- Wireable Flex Connector

PX0415/1

- Mates with Panel connector (PX0414)
- Re-wireable connector
- For RG-174 cable
- Supplied with SMB plug

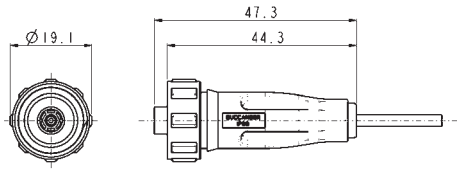


Part no.	Description
PX0415/1	Re-wireable connector with SMB Plug - for RG-174 cable

Pre- Wireable Flex Connector

PX0416/xMxx

- Mates with Panel connector (PX0414)
- Pre-wired
- Overmoulded construction
- Supplied with SMB plug terminated with RG-174 cable
- 1m, 3m & 5m cable lengths

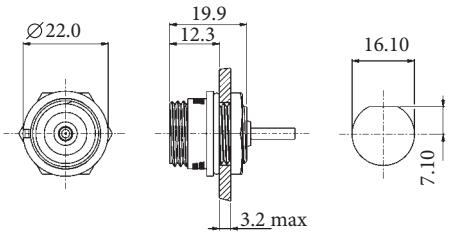


Part no.	Description
PX0416/1M00	Overmoulded connector with SMB plug - cable length 1m
PX0416/3M00	Overmoulded connector with SMB plug - cable length 3m
PX0416/5M00	Overmoulded connector with SMB plug - cable length 5m

Panel Mounting Connector

PX0414/xMxx

- Mates with Flex connectors (PX0415, PX0416)
- Single hole fixing
- Supplied with SMB jack
- terminated with RG-174 cable
- U.FL cable version also available



Part no.	Description
PX0414/0M50	Panel connector with SMB jack - cable length 0.5m
PX0414/1M00	Panel connector with SMB jack - cable length 1m
PX0414/1M50	Panel connector with SMB jack - cable length 1.5m

Sealing Cap and Accessories

PX0480 PX0481 PX0485

- Sealing caps maintain IP rating when connectors are not in use

Part no.	Description
PX0480	Sealing cap for PX0414 chassis connector
PX0481	Sealing cap for PX0415 re-wireable flex connectors
PX0485	Sealing cap for PX0416 overmoulded flex connector
14319	Hand crimp tool for SMB

400 Series - SMB Buccaneer

Specifications

Electrical

Impedance:	50Ω
Frequency Range:	0-4GHz
Contact Resistance:	
Centre:	6mΩ (max.)
Outer:	2.5mΩ (max.)
Insulator Resistance:	1000MΩ (max.)

Mechanical:

Sealing:	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	RG-174
Insertion/Withdrawal Force:	
Insertion Force:	36N
Withdrawal Force:	36N
Cable Retention Force:	18N
Mating Cycles:	500
Operating Temperature:	–20°C to +80°C

Material:

PX0415/1 and PX0414	
Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN 50021:1999
PX0416	
Body Mouldings:	PVC (black)
Flammability Rating:	UL94V-0
O Rings:	Nitrile
Panel Sealing O Ring:	Nitrile
SMB Connector	
Body:	Brass to QQ-B-626, Gold Plated
Centre Contact:	
Plug:	Brass to QQ-B-626, Gold Plated
Jack:	Beryllium Copper to QQ-B-530, Gold Plated
Insulator:	Teflon
Crimp Ferrules:	Annealed Copper
RoHS	Compliant

400 Series - Wireless Buccaneer

SMB Antenna

- IP68 Sealing
- SMB 50 ohm interface
- For use with SMB Buccaneer
- Three frequency bands:
  440 to 470MHz
  900/1800/1900MHz
  2.4 to 2.5GHz
- Maintains sealing integrity of equipment

Bluetooth Cable Replacement

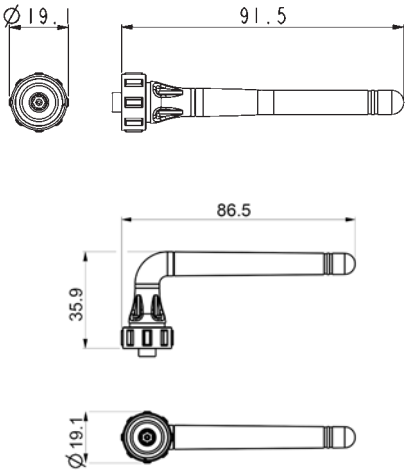
- IP68 Sealing
- RS485/RS232 serial interfaces
- Serial data to Bluetooth
- Wireless transparent data connection
- Up to 100m range (class 1)
- Maintains sealing integrity of equipment

SMB Antenna

PX0407

PX0407/90

- Dust & waterproof to IP68 EN60529 when mated
- Secure screw thread locking
- Built-in sealed antenna
- Mates with SMB Buccaneer PX0414
- Frequency bands:
  2.4 to 2.5GHz
  440 to 470MHz
  900/1800/1900MHz



Part no.	Description
PX0407	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409	IP68 rated, Buccaneer Antenna, 900/1800/1900MHz frequency band
PX0407/90	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408/90	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409/90	IP68 rated, Buccaneer Antenna, 900/1800/1900MHz frequency band

Specification

Electrical

Frequency	
PX0407	2.4 to 2.5GHz
PX0408	440 to 470MHz
PX0409	850-900/1800/1900MHz
Configuration	
PX0407	¼ Wavelength
PX0408	½ Wavelength
PX0409	½ Wavelength
Radiation	Omnidirectional
Polarization	Vertical
Impedance	50Ω nominal
VSWR	<2

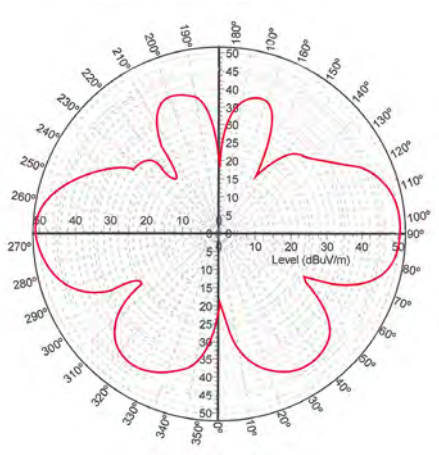
Mechanical

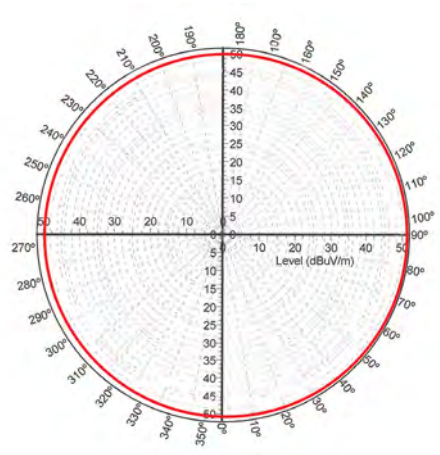
Sealing	IP68, EN60529:1992+A2:2013, when mated (10m depth for 2 weeks)
Operating Temperature:	–20°C to +65°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Material

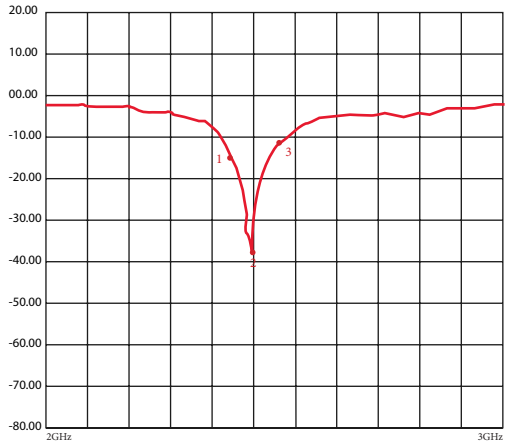
Body Mouldings	PVC
Flammability Rating	UL94V-0
UV Resistance	EN50021:1999
RoHS	Compliant

PX0407 Polar plots

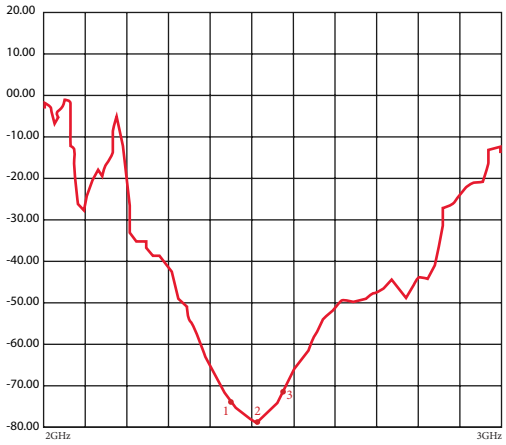




PX0407 Radiation Pattern plots

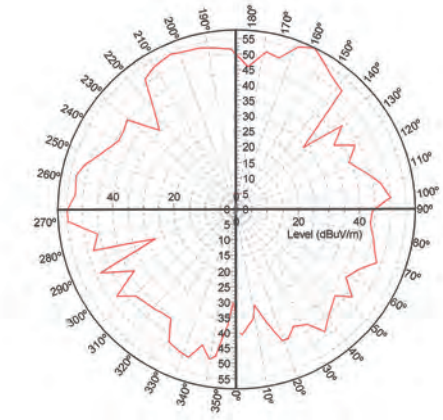


1 -12624 dB 2.40000 GHz
2 -34951 dB 2.45000 GHz
3 -12.777 dB 2500.000 000 MHz

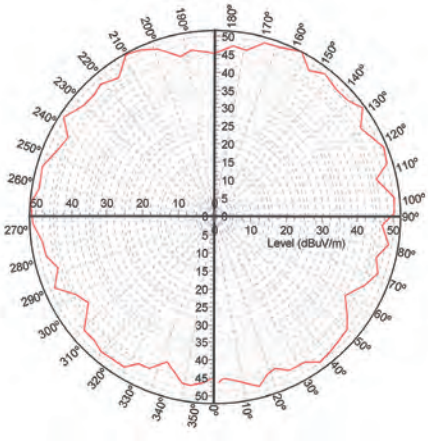


1 1.5659 dB 2.40000 GHz
2 1.6514 dB 2.45000 GHz
3 1.6032 dB 2500.000 000 MHz

PX0408 Polar plots

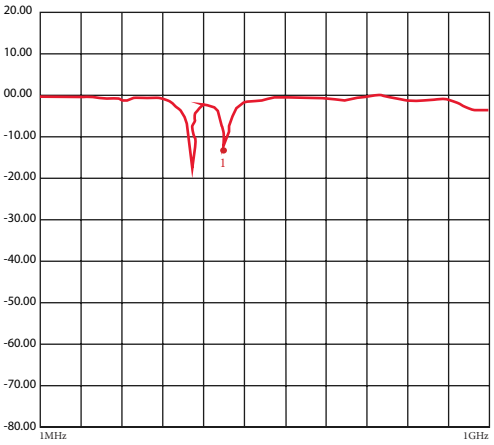


Pattern Field E

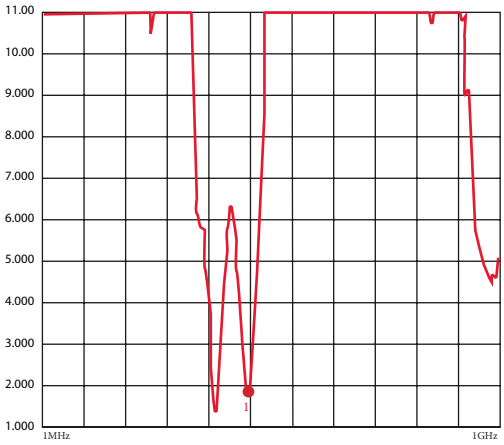


Pattern Field H

PX0408 Radiation Pattern plots

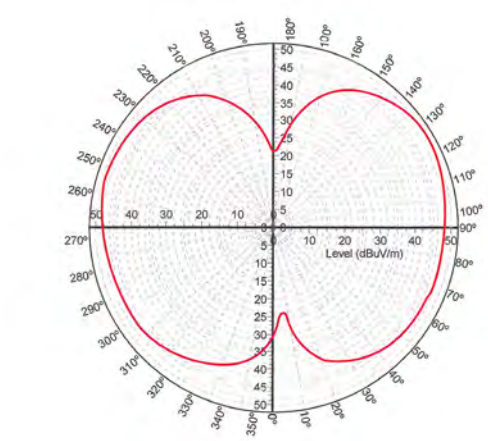


1 450.00000 MHz -13.300 dB

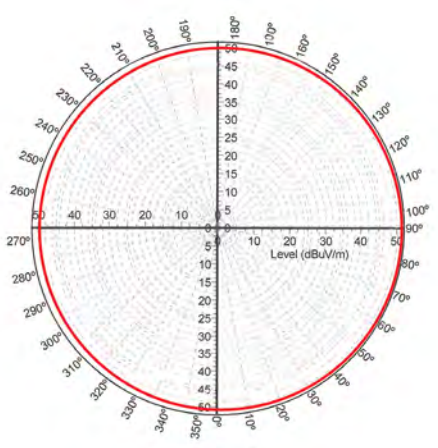


1 450.00000 MHz -13.300 dB

PX0409 / 900MHz Polar plots

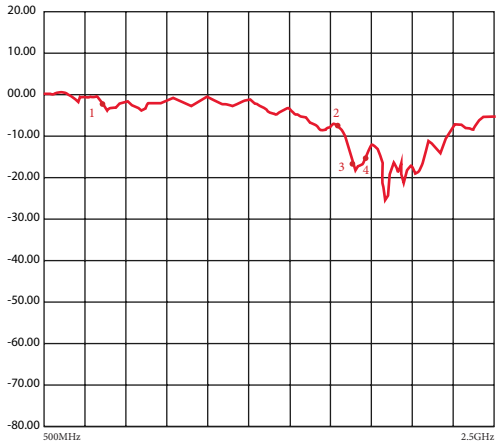


Pattern Field E

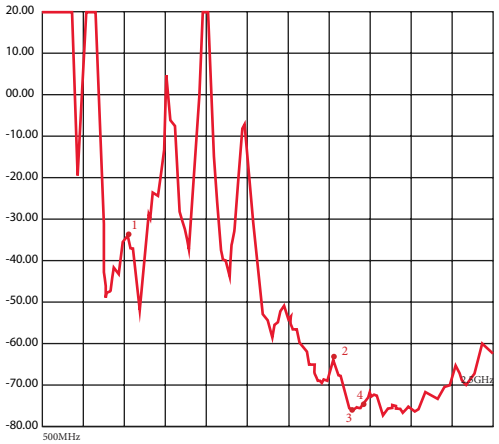


Pattern Field H

PX0409 / 900MHz Radiation Pattern plots

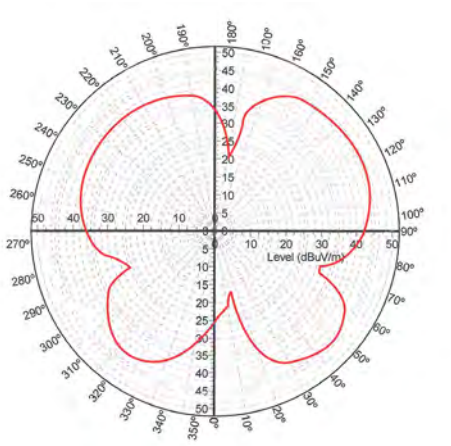


1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB

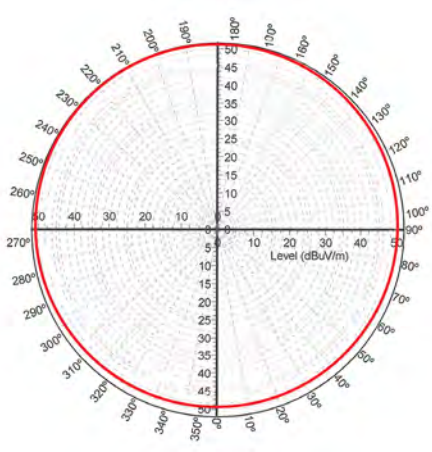


1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

PX0409 / 1800MHz Polar plots

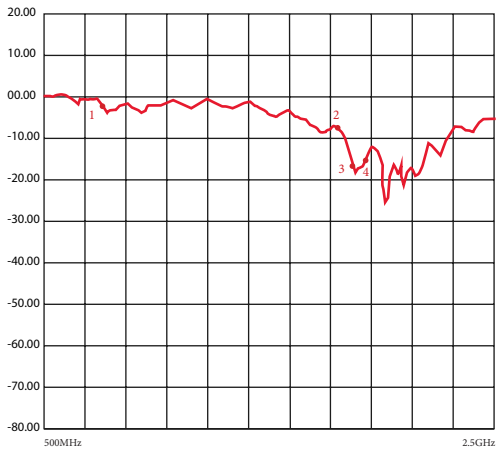


Pattern Field E



Pattern Field H

PX0409 / 1800MHz Radiation Pattern plots



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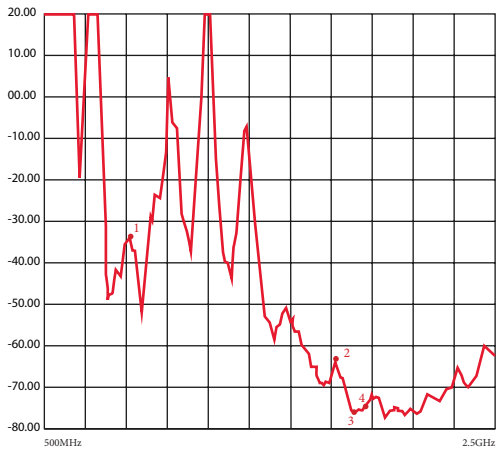
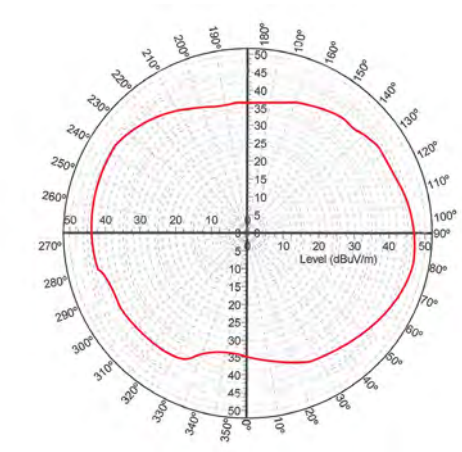
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB

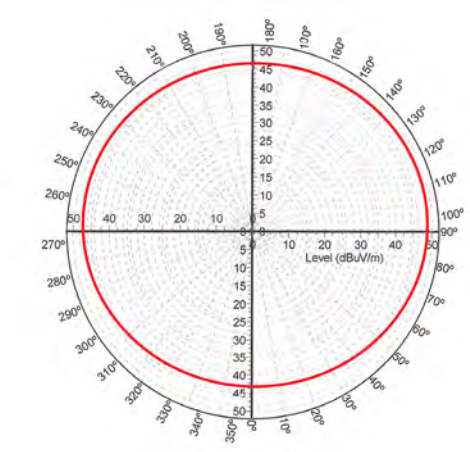


1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

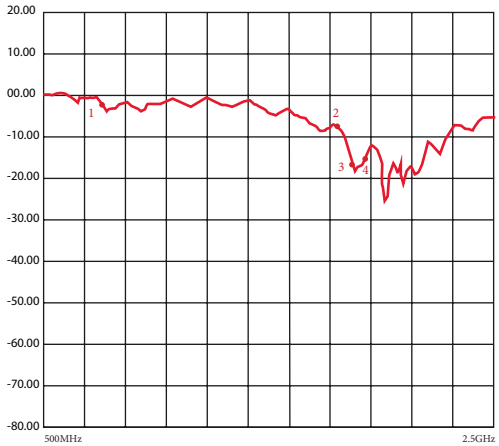
PX0409 / 1800MHz Polar plots



Pattern Field E



Pattern Field H



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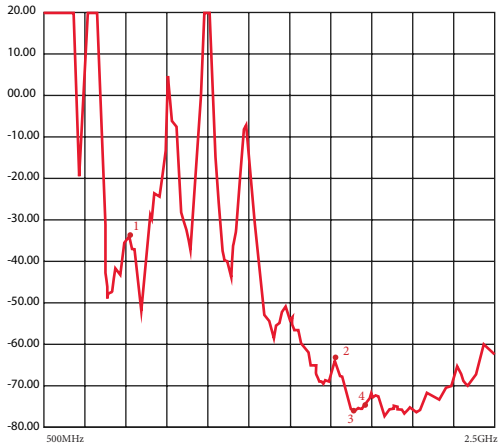

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