

Innovative **Technology** for a **Connected** World

S8658PC 865-867MHz

February 22, 2012

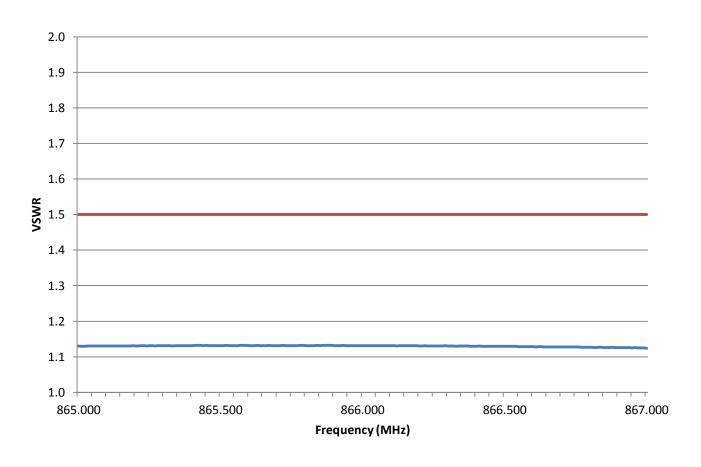
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Antenna Characteristics

Parameter	Performance
Vendor Part Number	S8658PCR / S8658PCL
Antenna Type	Panel
Connector Type	Female, Type N
Cable Type	RG58
Cable Length (cm)	30.48 (12') +/- 1.27cm
Plenum Rated?	Yes
Operating Frequency Range	865-870 MHz
Maximum Gain (dBiC) Typical Gain (dBiC)	9 8.5
Azimuth Beam Width (deg)	36°
Elevation Beam Width (deg)	75°
VSWR Max	1.5:1
Polarization	Circular
Max Power (watts)	10w
Weight	0.79 kg (1.75 lb)
Storage Temperature Range (C)	-40° - 85°
Operational Temperature Range (C)	-35° - 70°
Outdoor Rated?	Yes

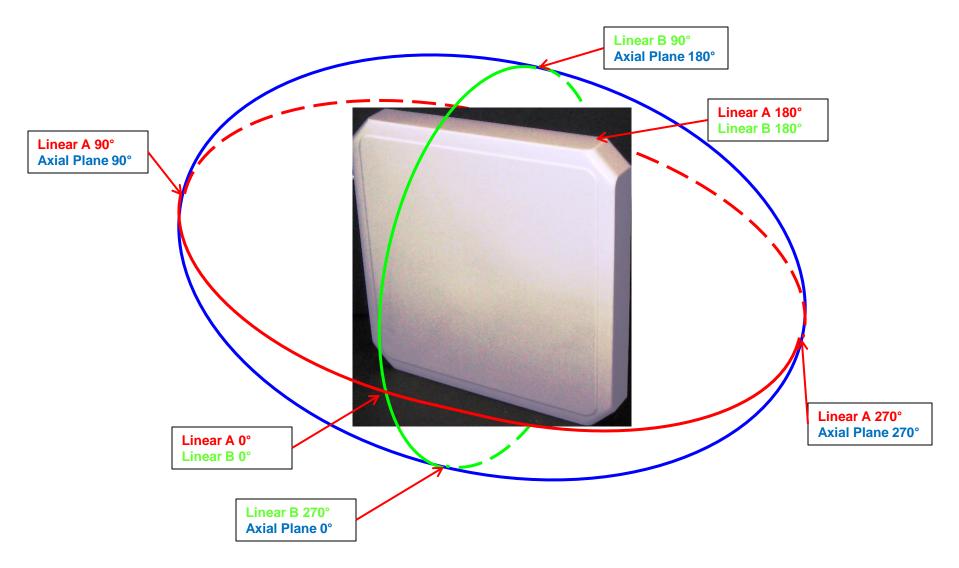


VSWR





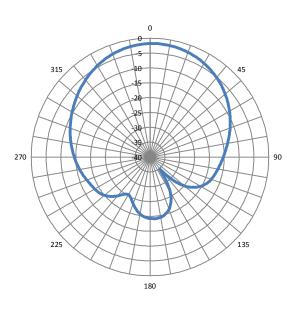
Radiation Pattern Orientation

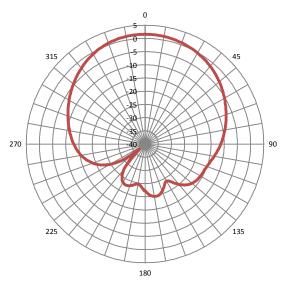


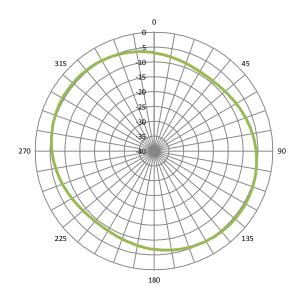


Radiation Patterns (865 MHz)

Linear A Linear B Axial Rotation



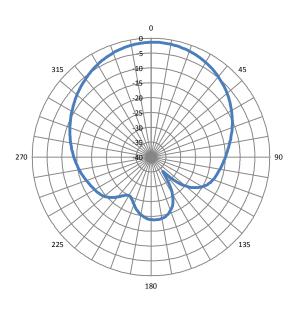


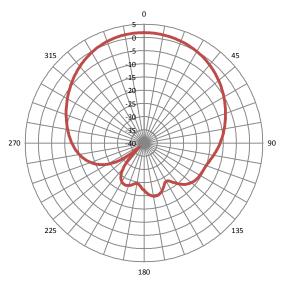


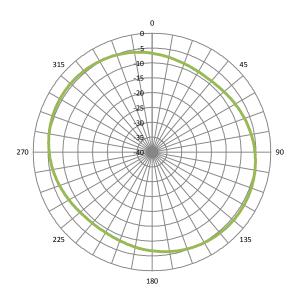


Radiation Patterns (866 MHz)

Linear A Linear B Axial Rotation

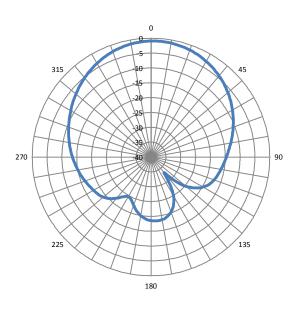


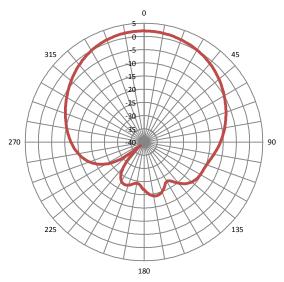


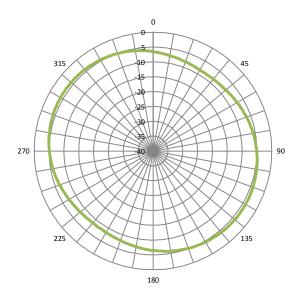


Radiation Patterns (867 MHz)

Linear A Linear B Axial Rotation

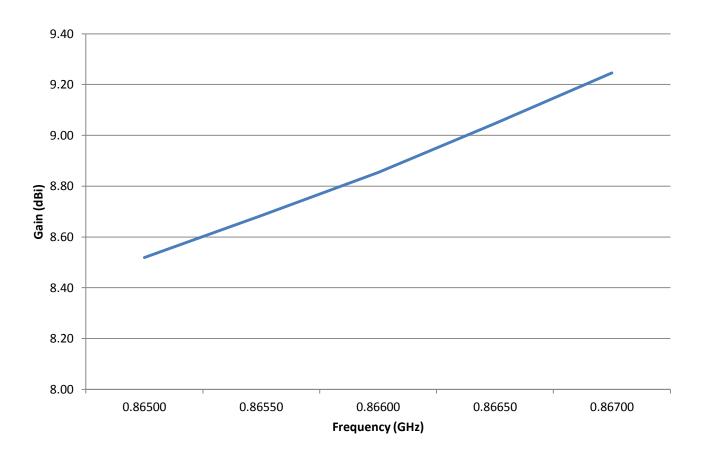






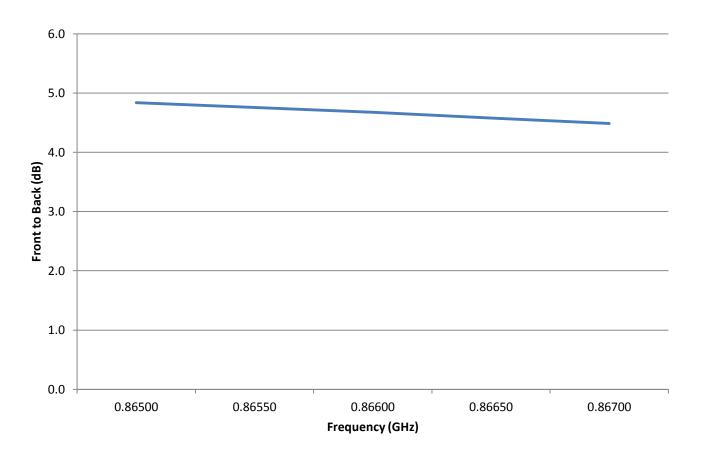


Peak Gain on Horizon (dBic)



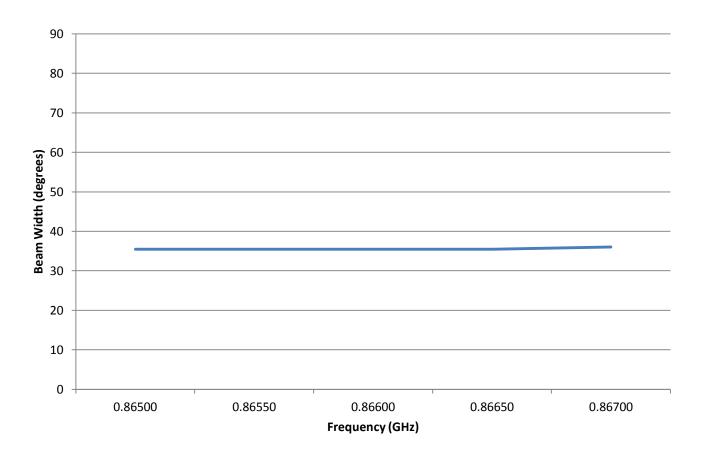


Axial Ratio



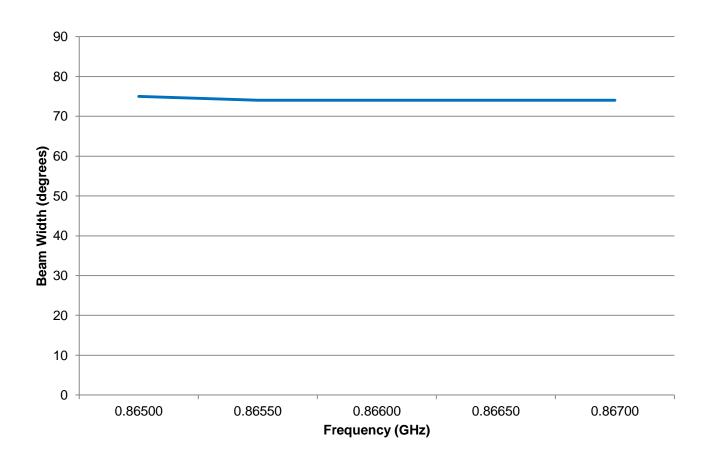


HPBW Linear A



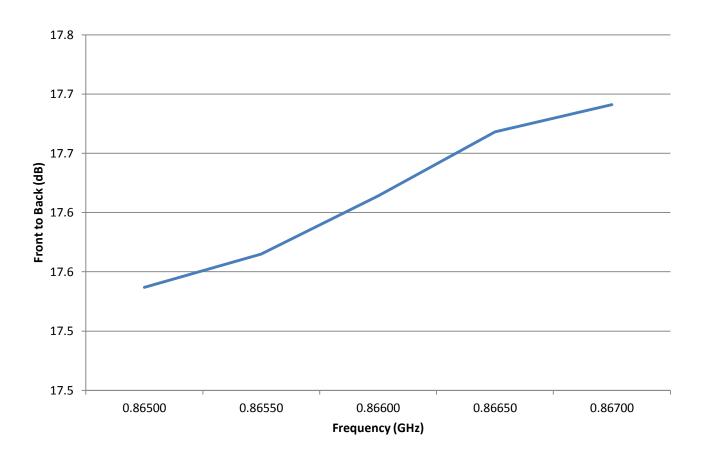


HPBW Linear B



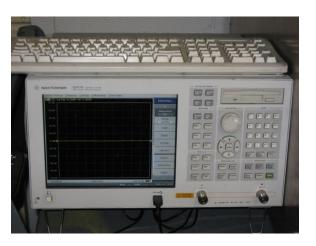


Front to Back





Test Equipment Summary (VSWR)





Analyzer

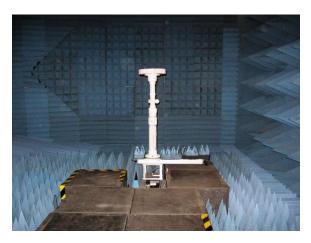
- Agilent E5071B network analyzer
- •Maximum frequency range: 300 kHz 8.5 GHz
- Calibration certified annually (system)
- Calibrated per OSL standard (test)

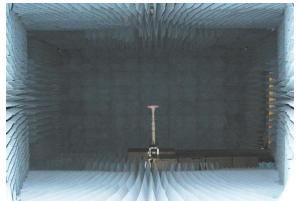
Testing Chamber

- •36"H x 36"W x 34"D
- •Absorber material: Pyramid 2"W x 2"L x 5"H / division



Test Equipment Summary (Radiation Patterns)





Testing Chamber:

- Test chamber is a single axis, single source system comprising a network analyzer, positioner / controller and tapered anechoic chamber. The system is calibrated prior to each test. All components are calibrated annually as required.
- Dimensions:
 - 8.8 meters from face of source to DUT center of rotation
 - 72" center of height above floor

