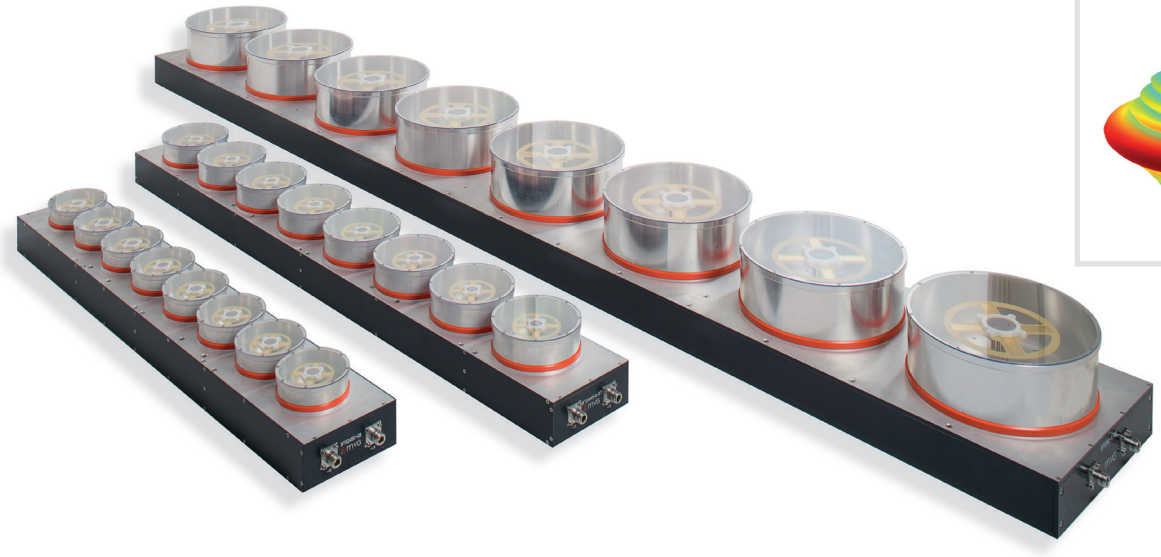
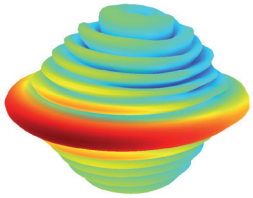
Linear Array Reference Antennas



Typical 3D radiation pattern



SOLUTION FOR

- **Gain reference for base station antennas and cylindrical near-field systems**

Main features

Technical performance

- Dual slant +45°/-45° or H/V polarization
- Low cross polarization

Design

- Lightweight for easy handling
- Reduced inter-element coupling
- Adjustable interface for easy mounting

Surface treatment

- Surtec 650 according to MIL-C 5541E class 3
- Polyurethane paint

Repeatability

- Stiff and robust mechanical design
- Precision machined
- High reliability coaxial connector
- Precision pole mounting brackets

Delivered documents

- Typical performance data (TYMEDA™)
- Measured return loss data and port-to-port coupling

Product configuration

Equipment

■ Brackets for pole mounting

Related services

□ Calibration and maintenance
□ Customization

■ Included □ Optional

Electrical characteristics

Part number	BTS892-A	BTS1940-A	BTS2450
Type of antenna	Linear array	Linear array	Linear array
Frequency range	824 – 960 MHz	1710 – 2170 MHz	2170 – 2690 MHz
Polarization	Dual slant +45°/-45°(1)	Dual slant +45°/-45°(1)	Dual slant -45°/+45°(1)
Gain	> 15 dBi	> 15 dBi	> 15 dBi
Efficiency	> -2 dB	> -2.5 dB	> -2.5 dB
VSWR	< 1.5	< 1.5	< 1.5
Return loss	< -10 dB	< -10 dB	< -10 dB
Cross polar discrimination	> 25 dB	> 25 dB	> 25 dB
Impedance	50 Ohms	50 Ohms	50 Ohms

(1) Dual linear H/V available upon request

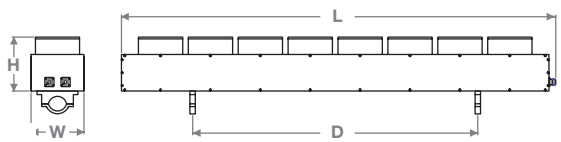
BTS1940-A radiation pattern in the principal planes (co & cross polar components) @ 1740 MHz

Mechanical characteristics

Part number	BTS892-A	BTS1940-A	BTS2450
Dimensions			
H	165 mm	152 mm	99 mm
W	300 mm	148 mm	149 mm
L	2320 mm	1225 mm	928 mm
D	1144 mm	800 mm	420 mm
Weight (approx.)	25 Kg	8 Kg	8 Kg
RF connector	N type Female(1)	N type Female(1)	N type Female(1)
Interface	Brackets for pole mounting Ø 40-150 mm	Brackets for pole mounting Ø 40-120 mm	Brackets for pole mounting Ø 40-120 mm

(1) Coaxicom 3081-9

Mechanical drawing



Mounting brackets detail

Contact your local sales representative for more information
www.mvg-world.com/antennas
salesteam@mvg-world.com

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