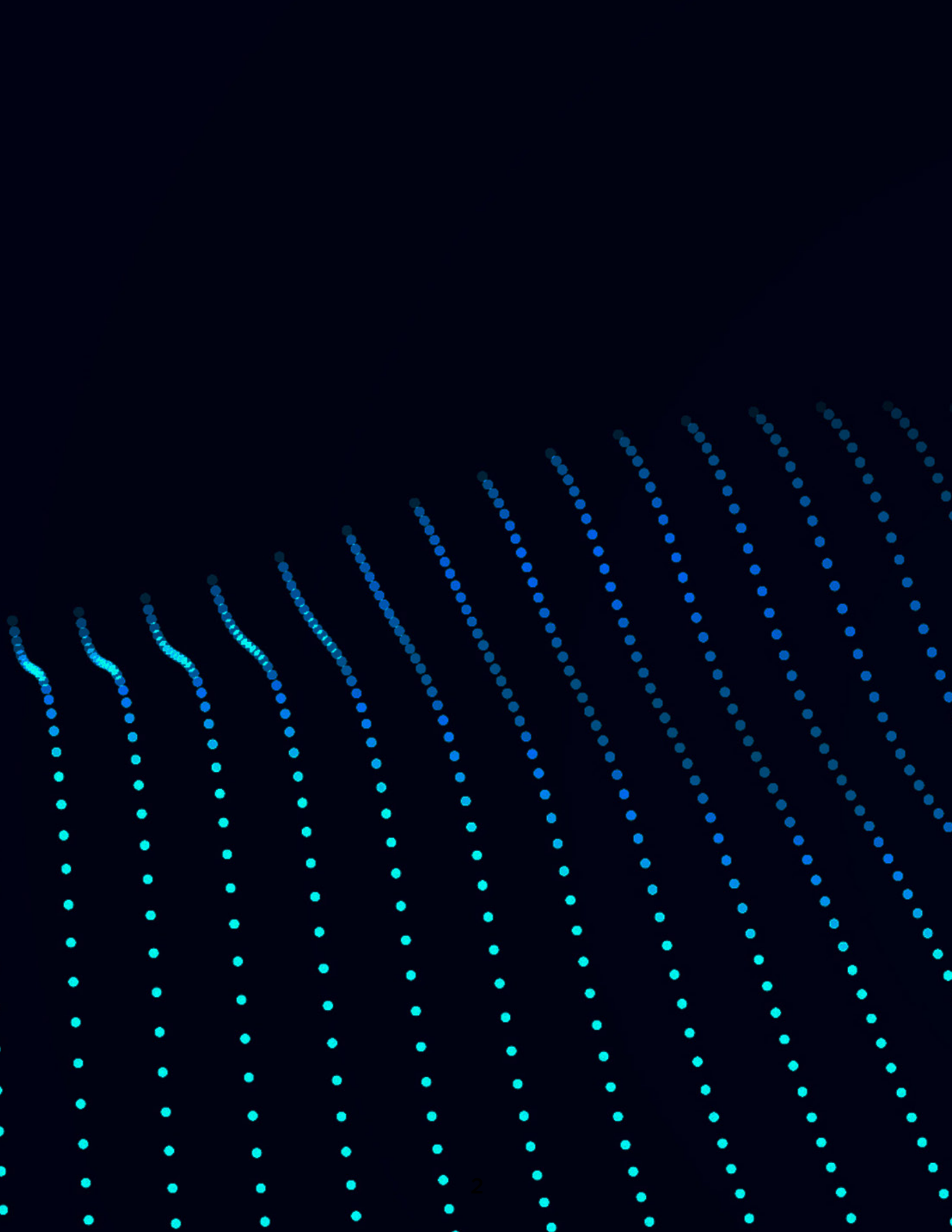




Public Safety & Critical Communications

Catalog



FG Series

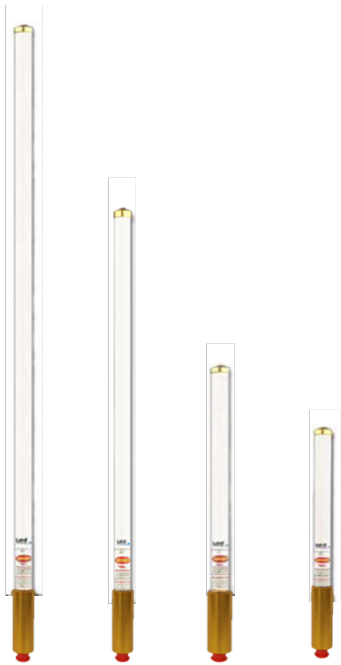
Omnidirectional UHF Base Station Antenna (360 - 512 MHz)

Electrical Characteristics

Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	2.0:1
Horizontal Beam Width (Azimuth)	360°
Input Power (W)	200
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Radiator Material	Copper Coated
Radome Material	Fiberglass
Base and Cap Material	Gold-anodized Aluminum
Color	White
Maximum Wind Resistance (KM/H)	201
Operating Temperature(°C)	-35 - 80
Diameter (cm)	3.33
Mounting (Optional)	FM2/FM2SP



FG4507 FG4505 FG4503 FG4500

- **High-density fiberglass:**
Very durable
- **Collinear design with J-pole style element:**
High performance
- **Doesn't require adjustment in the field:**
Broadband 4 MHz
- **Treated for UV:** Resists sun damage
- **Fully tested with an analyzer:** Ensures the best performance
- **Gold anodized aluminum base and cap:**
Will not oxidize

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Center Frequency (MHz)	Vertical Beam Width	Height (cm)
360-380	FG3600	2	370	75	66
	FG3603	5	370	33	112
380-406	FG3800	2	385	75	66
	FG3803	5	385	33	112
406-416	FG4060	2	411	75	66
	FG4063	5	411	33	112
	FG4065	7	411	20	193
410-430	FG4100	2	420	75	66
410-420	FG4103	5	415	33	112
420-430	FG4203	5	425	33	112
	FG4205	7	425	20	193
430-450	FG4300	2	440	75	66
430-440	FG4303	5	435	33	112
	FG4305	7	435	20	193

FR Series

Omnidirectional UHF Base Station Antenna (380 - 490 MHz)

Electrical Characteristics

Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	1.5:1
Horizontal Beam Width (Azimuth)	360°
Input Power (W)	150
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Cable Length (cm)	30.5
Radome Material	Fiberglass
Finish	White
Maximum Wind Resistance (KM/H)	200



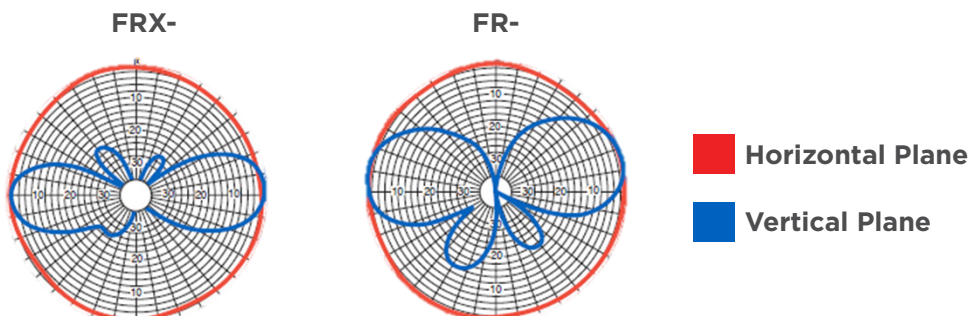
FRX380 FRX450 FR450

- **Low-profile fiberglass antenna:** Blends in to surroundings
- **Environmental resistance:** UV protection, built-in discharge, and excellent weather resistance
- **Effortless installation:** Comes fully assembled and does not require field adjustment or ground plane
- **Durable:** Highly reliable brass radiator
- **Selectable gain:** 3 dBi and 5dBi models
- **Mount included:** 30.3 cm cable with insulated N-Female connector
- **Mount included:** 30.3 cm cable with insulated N-Female connector

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Adjusted Band (MHz)	Vertical Beam Width	Height (cm)	Weight (kg)
380-400	FRX380	5	20	24	119	0.72
406-430	FRX406	5	24	24	117	0.50
430-450	FRX430	5	20	24	116	0.47
450-470	FR450	3	20	40	86	0.48
	FRX450	5	20	24	107	0.51
470-490	FRX470	5	20	24	107	0.47

Radiation Patterns



Voyager Series

Omnidirectional UHF Base Station Antenna (406 - 512 MHz)



VG4505

Electrical Characteristics

Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	1.5:1
Input Power (W)	250
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Radiator Material	Anodized aluminum 6061-T6
Finish	Dorado
Maximum Wind Resistance (KM/H)	160

Ordering Information

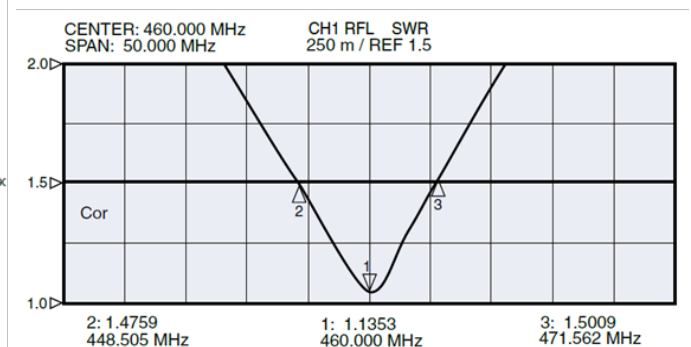
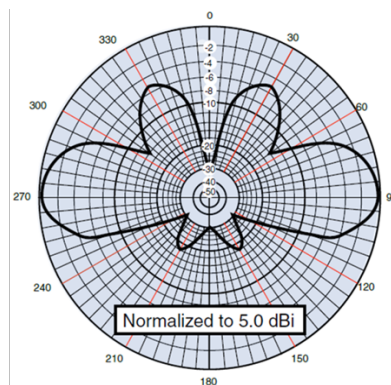
Frequency (MHz)	Part #	Gain (dBi)	Horizontal Beam Width	Vertical Beam Width	Front to Back Ratio (db)	# of Elements
406-450	VG4065	5	2.5%	35	89	0.68
450-512	VG4505	5	2.5%	35	89	0.68

- **Economical:** Magnificent design and manufacturing at a low price
- **N-Female connector in gold anodized aluminum base sheath:** Provides protective cover and a strong mount
- **Patented internal adapter:** Does not freeze, corrode, or de-tune
- **Rubber and plastic coated adapter:** Vibration and moisture resistant
- **UV protected:** Does not crack, deteriorate, or break from sun exposure
- **Thick wall mount:** More durable, safe installation
- **Broadband:** Easily adjusted and operated in wide range of channels and frequencies
- **Field adjustable:** For quicker deployment
- **Telescopic radiating elements:** Easy to transport
- **Fully tested:** reliable performance

Radiation Patterns

VG4505

Elevation



P Series

Directional Yagi UHF Base Station Antenna (406 - 470 MHz)

Electrical Characteristics

Radiation Pattern	Directional
Polarization	Vertical/Horizontal
VSWR	<2.0:1
Input Power (W)	250
Impedance	50
Electrostatic Discharge Protection	Grounding



P4573

Mechanical Characteristics

Connectory Type	N-Female
Element Material	Aluminum 5005-H19
Boom Material	Aluminum 6063-T832
Boom Diameter (cm)	2.2
Finish	Chrome
Maximum Wind Resistance (KM/H)	200
Maximum Mast Diameter (cm)	5.4



PE4576

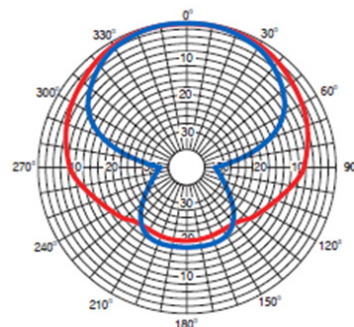
- **Economical:** Affordable high-gain antenna
- **Quality elements:** Aluminum 5005-H19 elements
- **Quality boom:** 2.2 cm diameter aluminum 6063-T832 boom

Ordering Information

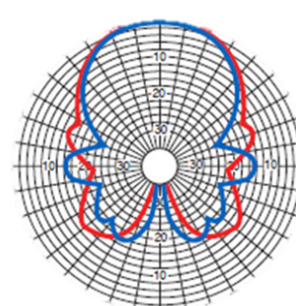
Freq. (MHz)	Part #	Gain (dBi)	Horiz. Beam Width	Vert. Beam Width	Front to Back ratio (dB)	# of Elements	Length (cm)	Weight (kg)
406-420	P4063	8	100	65	18	3	39	.68
450-470	P4573	8	100	65	18	3	39	.68
	PE4576	10	59	50	12	6	91	1.1

Radiation Patterns

PE4573



PE4576



■ Horizontal Plane
■ Vertical Plane

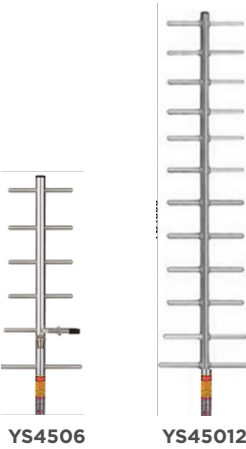
YS Series

Directional Yagi UHF Base Station Antenna (340 - 512 MHz)



YS4503

YS4505



YS4506

YS45012

- **Boom terminates in N-Female connector:** Feeds elements via internal line
- **Internal harmonization:** 4 MHz bandwidth and weather resistance
- **Anodized in gold and black:** Will not corrode
- **Economical:** Mounting kit model YM78
- **Fully tested on an analyzer:** Provides best performance and VSWR

Electrical Characteristics

Radiation Pattern	Directional
Polarization	Vertical
VSWR	1.5:1
Input Power (W)	300
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Element Material	Anodized Aluminum 6061-T6
Boom Material	Anodized Aluminum 6061-T6
Boom Diameter (cm)	2.2
Maximum Mast Diameter (cm)	4.1
Fixture of Elements to Boom	Screw
Finish	Chrome
Maximum Wind Resistance (KM/H)	200

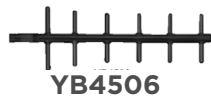
Ordering Information

Freq. (MHz)	Part #	Gain (dBi)	Horiz. Beam Width	Vert. Beam Width	Front to Back ratio (dB)	# of Elements	Element Length (cm)	Boom Diameter (cm)
340-360	YS3405	11	110	113	20	5	94	2.22
360-380	YS3606	12	67	58	20	6	112	2.22
380-406	YS3803	9,1	115	114	17	3	51	2.22
	YS3805	11	110	113	20	5	94	2.22
	YS3806	12	67	58	20	6	112	2.22
406-430	YS4063	9,1	115	114	17	3	51	2.22
	YS4065	11	110	113	20	5	94	2.22
	YS4066	12	67	58	20	6	112	2.22
430-450	YS4303	9,1	115	114	17	3	51	2.22
	YS4305	11	110	113	20	5	94	2.22
	YS4306	12	67	58	20	6	112	2.22

Directional Yagi UHF Base Station Antenna (350 - 512 MHz)

Electrical Characteristics

Radiation Pattern	Directional
Polarization	Vertical/Horizontal
VSWR	1.5:1
Input Power (W)	300
Impedance	50
Electrostatic Discharge Protection	Grounding



Mechanical Characteristics

Connectory Type	N-Female
Element Material	Anodized Aluminum 6061-T6
Boom Material	Anodized Aluminum 6061-T6
Boom Diameter (cm)	2.2
Boom Elements	Welded, 360°
Finish	Gold-anodized or Black
Maximum Wind Resistance (KM/H)	200

Ordering Information

Freq. (MHz)	Part #	Gain (dBi)	Horiz. Beam Width	Vert. Beam Width	Front to Back ratio (dB)	# of Elements	Element Length (cm)	Boom Diameter (cm)
380-406	Y3803	9,1	115	114	17	3	51	2.22
	YB3803	9,1	115	114	17	3	51	2.22
	YB3805	11	110	113	20	5	94	2.22
	Y3806	12	67	58	20	6	112	2.22
384-394	YB3806	12	67	58	20	6	112	2.22
	YB3846	12	67	58	20	6	112	2.22
406-430	Y4063	9,1	115	114	17	3	51	2.22
	Y40612	13	33	37	20	12	183	3.17
406-430	YB4063	9,1	115	114	17	3	51	2.22
	Y4065	11	110	113	20	5	94	2.22
	Y4066	12	67	58	20	6	112	2.22
	YB4066	12	67	58	20	6	112	2.22
430-450	Y4303	9,1	115	114	17	3	51	2.22
	Y4306	12	67	58	20	6	112	2.22

- **Boom with N-Female Connector:** Feeds elements via internal transmission line
- **Internal Harmonization:** Broadband performance and weather resistant
- **Welded 360° elements anodized in gold/black:** Eliminates corrosion
- **Economical:** Includes mounting kit (YM78HD)
- **Quick installation:** Comes fully assembled, requires no field adjustment

YF Series

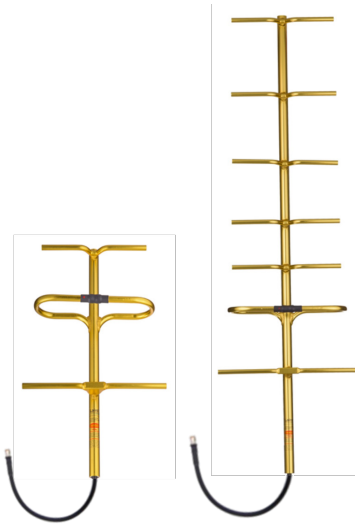
Directional Yagi UHF Base Station Antenna (450 - 490 MHz)

Electrical Characteristics

Radiation Pattern	Directional
Polarization	Vertical/Horizontal
VSWR	<1.5:1
Input Power (W)	250
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Cable	RG213, 61 cm
Boom Material	Anodized Aluminum 6063-T6832
Finish	Anodized in Gold
Ingress Protection	IP67
Boom Diameter (cm)	3.8
Maximum Mast Diameter (cm)	5.4
Operating Temperature	-30 to 70° C
Boom Elements	Welded, 360°
Maximum Wind Resistance (KM/H)	219



YF45018

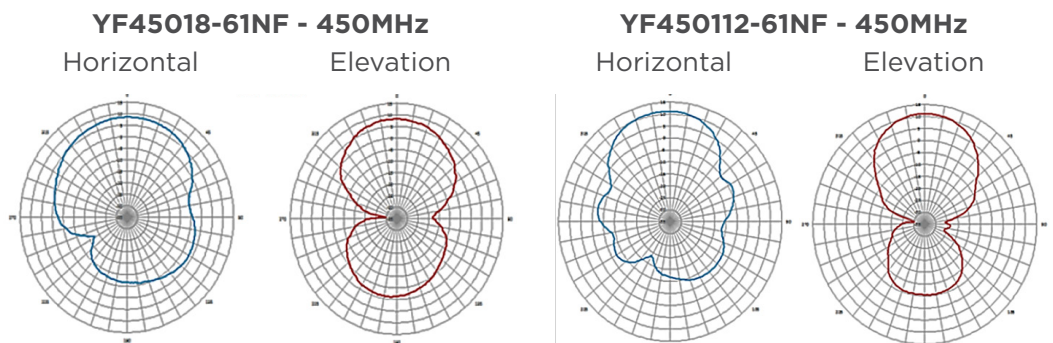
YF450112

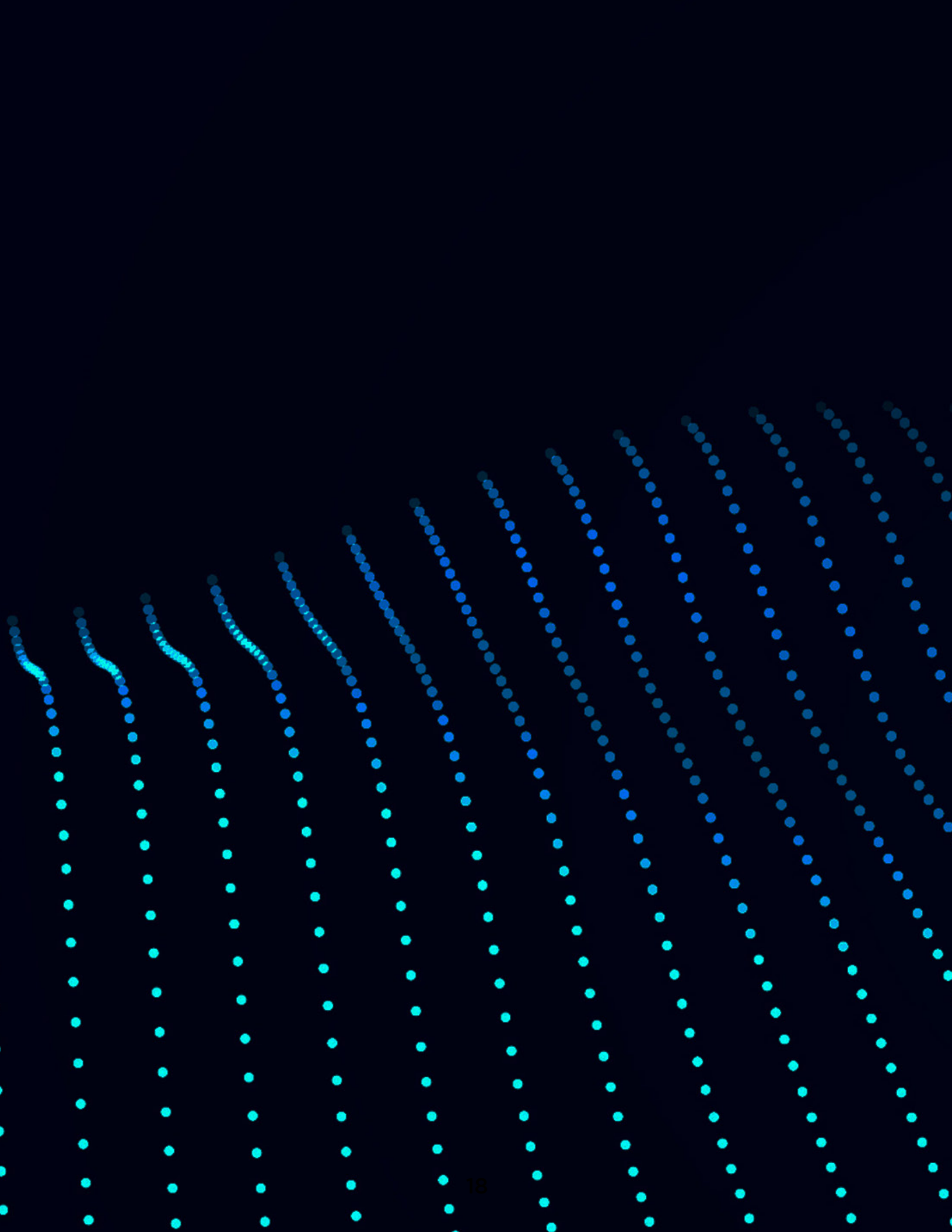
- **IP67 Rated:** Protected against dust and water
- **Boom with RG213 cable and N-female connector:** Feeds elements via internal transmission line
- **Internal Harmonization:** Broadband performance and weather resistant
- **Welded 360° elements anodized in gold:** Eliminates corrosion
- **Economical:** Includes mounting kit (YM78HD)
- **Fully tested on an analyzer:** Provides best performance and VSWR
- **Quick installation:** Comes fully assembled, requires no field adjustment

Ordering Information

Freq. (MHz)	Part #	Gain (dBi)	Horiz. Beam Width	Vert. Beam Width	Front to Back ratio (dB)	# of Elements	Element Length (cm)	Weight (kg)
450-490	YF45018-61NF	9.1	90	62	15	3	46	.68
	YF450112-61NF	12.2	56	46	20	7	107	1.26

Radiation Patterns





A Series



- **1/4 Wavelength**
- **Economical**
- **Requires Ground Plane**
- **403-490 MHz**
Frequency: adjustable by cutting
- **Gain:** 2 dBi
- **Stainless steel radiating element:** 17-7 PH
- **Gold anodized connector:** Corrosion-resistant and better transmission
- **Adjustable whip:** allows greater adjustment of frequency without cutting antenna
- **Robust molded ABS base:** extreme power retention

Omnidirectional UHF Mobile Antenna (403 - 490 MHz)

Electrical Characteristics

Antenna Style	Whip
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<1.5:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

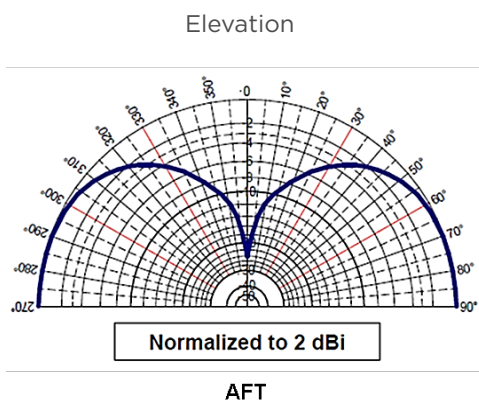
Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	ABS
Color	Bright Chrome or Black
Connector	NMO

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
403-470	A403S	3	Chrome	15
	A450	2	Chrome	13,6
450-470	AB450	2	Black	13,6
	A450S	2	Chrome	13,6
	AB450S	2	Black	13,6
470-490	A470	2	Chrome	12,7
	AB470	2	Black	12,7
	A470S	2	Chrome	12,7
118-896	AFT	3	Chrome	63,5
	ABFT	3	Black	63,5
	AFTS	3	Cromo	63,5
	ABFTS	3	Black	63,5

Radiation Patterns



B Series - Broadband



B3803W B3803WR B3803WS



BB3803W BB3803WR BB3803WS

- **Wavelength:** 1/4
- **Low loss base load coil**
- **Requires Ground Plane**
- **380-520 MHz**
Frequency: adjustable by cutting
- **Gain:** 3 dBi
- **Stainless steel radiating element:** Alloy 17-7 PH
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omnidirectional UHF Mobile Antenna (380 - 520 MHz)

Electrical Characteristics

Antenna Style	Whip w/ charging coil in base
Radiation Pattern	Omnidirectional
Polarization	Vertical
Tuning	Requires no adjustment, broadband
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Vertical Beam Width	100°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	ABS
Color	Bright Chrome or Black
Connector	NMO
Base Diameter (cm)	3.65
Weight (kg)	.22

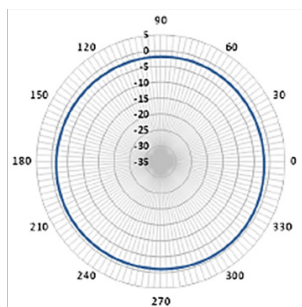
Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
380-520	B3803W	3	Chrome	23
	BB3803W	3	Black	23
	B3803WR	3	Chrome	23
	BB3803WR	3	Black	23
	B3803WS	3	Chrome	23
	BB3803WS	3	Black	23

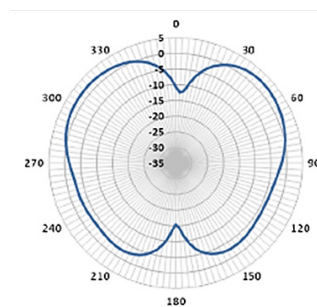
Radiation Patterns

B3803W

Horizontal, 450MHz



Elevation 0°, 450MHz



B Series - Collinear



B4505C B4505CS B4505CR



BB4505C BB4505CS BB4505CR

- **Wavelength:** 5/8
- **Low loss base load coil**
- **Requires Ground Plane**
- **300-512 MHz**
Frequency: adjustable by cutting
- **Gain:** 5 dBi
- **Stainless steel radiating element:** Alloy 17-7 PH
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omnidirectional UHF Mobile Antenna (300 - 512 MHz)

Electrical Characteristics

Antenna Style	Whip w/ charging coil in base
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	ABS
Color	Bright Chrome or Black
Connector	NMO
Base Diameter (cm)	3.65
Weight (kg)	.22

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
380-400	B3805C	5	Chrome	104
	BB3805C	5	Black	104
	B3805CS	5	Chrome	104
406-430	BB3805CS	5	Black	104
	B4065C	5	Chrome	100
	BB4065C	5	Black	100
430-450	B4065CS	5	Chrome	100
	BB4065CS	5	Black	100
	B4305C	5	Chrome	91
450-470	BB4305C	5	Black	91
	B4505C	5	Chrome	89
	BB4505C	5	Black	89
B4505CR	B4505CR	5	Chrome	89
	BB4505CR	5	Black	89
	B4505CS	5	Chrome	89
BB4505CS	BB4505CS	5	Black	89

B Series - No Ground Plane Required



Omnidirectional UHF Mobile Antenna (340 - 512 MHz)

Electrical Characteristics

Antenna Style	Whip w/ charging coil in base
Radiation Pattern	Omnidirectional
Tuning	Adjustable by cutting
Polarization	Vertical
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	ABS
Color	Bright Chrome or Black
Connector	NMO
Base Diameter (cm)	3.65
Weight (kg)	.22

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
1/2 Wavelength				
406-430	B4062N	2	Chrome	36
	BB4062N	2	Black	36
	B4062NS	2	Chrome	36
430-450	B4302N	2	Chrome	32
	BB4302N	2	Black	32
	B4302NS	2	Chrome	32
450-470	B4502N	2	Chrome	32
	BB4502N	2	Black	32
	B4502NR	2	Chrome	32
	BB4502NR	2	Black	32
	B4502NS	2	Chrome	32
	BB4502NS	2	Black	32
470-490	B4702NS	2	Chrome	30
490-512	B4902N	2	Chrome	30
	B4902NS	2	Chrome	30
5/8 Wavelength				
340-360	B3403N	3	Chrome	95
	BB3403N	3	Black	95
	B3403NS	3	Chrome	95

- **Wavelength:** 1/2, 5/8, collinear
- **Low loss base load coil**
- **Doesn't require a ground plane**
- **340-512 MHz Frequency:** adjustable by cutting
- **Gain:** 2-5 dBi
- **Stainless steel radiating element:** Alloy 17-7 PH
- **Choice of stainless steel spring or low-loss rubber**
- **Gold anodized connector:** Corrosion-resistant and better transmission

QW Series



QW450



QWB450



QWFT120

QWFT120



QWFTB120

QWFTB120

- 1/4 Wavelength
- Economical
- Requires Ground Plane
- 380-512 MHz Frequency: adjustable by cutting
- Gain: 2 dBi
- Stainless steel radiating element: 17-7 PH
- Gold anodized connector: Corrosion-resistant and better transmission

Omnidirectional UHF Mobile Antenna (370 - 512 MHz)

Electrical Characteristics

Antenna Style	Whip
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	Triple Chrome Plated Brass
Color	Bright Chrome or Black
Connector	NMO

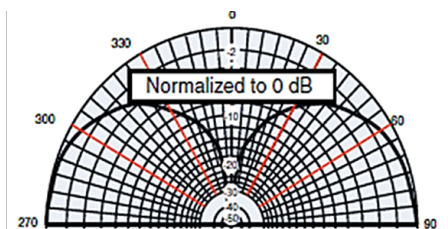
Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
370-390	QW370	2	Chrome	20
	QWB370	2	Black	20
380-400	QW380	2	Chrome	19
	QWB380	2	Black	19
406-430	QW406	2	Chrome	18
	QWB406	2	Black	18
430-450	QW430	2	Chrome	16,5
	QWB430	2	Black	16,5
450-470	QW450	2	Chrome	15
	QWB450	2	Black	15
470-490	QW470	2	Chrome	14,6
	QWB470	2	Black	14,6
490-512	QW490	2	Chrome	14
	QWB490	2	Black	14
118-970	QWFT120	2	Chrome	61
	QWFTB120	2	Black	61

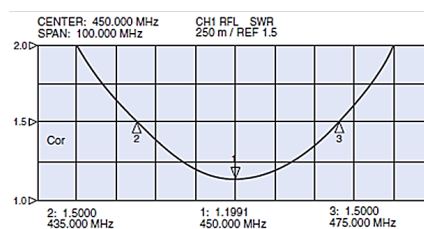
Radiation Patterns

QW450

Elevation



28



E Series



- **Wavelength: 1/4 or collinear**
- **Internal circuit load:** high performance and stability
- **Raised radiating element:** improves coverage on vehicle roof
- **Doesn't require ground plane**
- **Long splint:** allows rod to be moved for better tuning flexibility
- **Broadband:** Does not require adjustment
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omnidirectional UHF Mobile Antenna (406 - 512MHz)

Electrical Characteristics

Wavelength	1/4 or collinear
Antenna Style	Whip - high radiant load per circuit
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Vertical Beam Width	70°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	Fiberglass
Base Diameter (cm)	3.65
Weight (kg)	.22
Color	Bright Chrome or Black
Connector	NMO

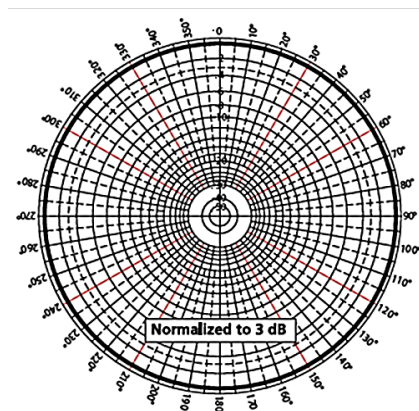
Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
406-430	EB4063C	3	Black	102
430-450	E4300	0	Chrome	102
	EB4303C	3	Black	102
450-470	E4503C	3	Chrome	102
	EB4503C	3	Black	102
450-512	EB4500	0	Black	102

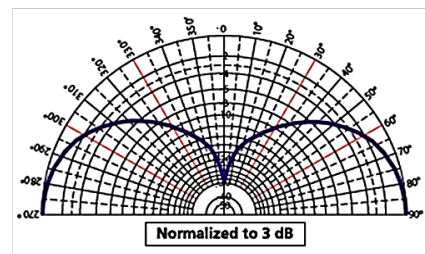
Radiation Patterns

E4503C

Horizontal



Elevation



Phantom Series



TRA4503



TRAB4503



TRA4503P



TRAB4503P

- **Low profile:** 8.9 cm high
- **Robust construction**
- **Ground plane and no ground plane options**
- **Broadband:** Does not require adjustment
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omnidirectional UHF Mobile Antenna (380 - 600 MHz)

Electrical Characteristics

Bandwidth	20 MHz
Antenna Style	Low Profile
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	150
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Solid Brass
Base Material	ABS
Base Diameter (cm)	3.65
Weight (kg)	.095
Color	Black or White
Connector	NMO or N

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
380-400	TRA3803	3	White	8.9
	TRAB3803	3	Black	8.9
	TRA3803P	3	White	8.9
	TRAB3803P	3	Black	8.9
410-430	TRA4103	3	White	8.9
	TRAB4103	3	Black	8.9
	TRA4103P	3	White	8.9
	TRAB4103P	3	Black	8.9
420-430	TRA4203	3	White	8.9
	TRAB4203	3	Black	8.9
430-450	TRA4303	3	White	8.9
	TRAB4303	3	Black	8.9
	TRA4303P	3	White	8.9
	TRAB4303P	3	Black	8.9
450-470	TRA4503	3	White	8.9
	TRAB4503	3	Black	8.9
	TRA4503P	3	White	8.9
	TRA4500N	0	White	8.9
	TRAB4500N	0	Black	8.9
	TRA4500NP	0	White	8.9
	TRAB4500NP	0	Black	8.9

Ultra Phantom Series



UTRA3802S1NB



UTRA3802S1NW

- **Low profile:** 8.6 cm high
- **Robust construction**
- **IP67 rated**
- **Requires ground plane**
- **Broadband:** Does not require adjustment
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omnidirectional UHF Mobile Antenna (380 - 512 MHz)

Electrical Characteristics

Bandwidth	<65 MHz
Antenna Style	Low Profile
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<2.5:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	150
Impedance (Ohms)	50

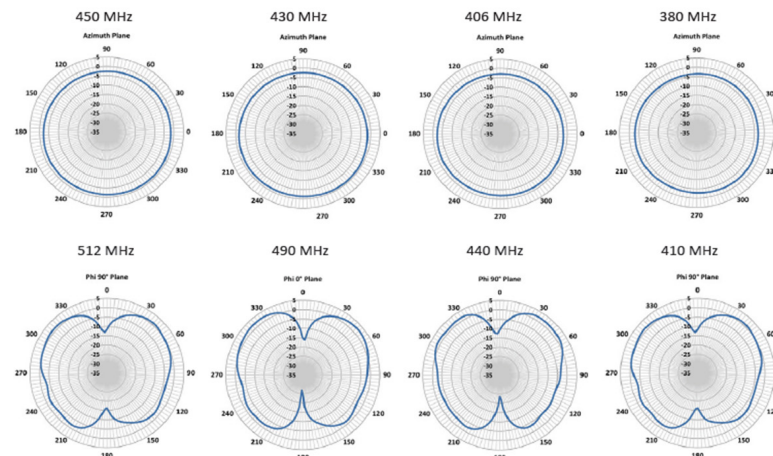
Mechanical Characteristics

Contact Material	Gold Plated
Radiating Element Material	Radiant Circuit
Base Material	ABS
Base Diameter (cm)	3.55
Weight (kg)	.163
Color	Black or White
Connector	NMO

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
380-410	UTRA3802S1NB-001	2	White	8.6
	UTRA3802S1NW-001	2	Black	8.6
406-440	UTRA4061S2NB-001	2.9	White	8.6
	UTRA4061S2NW-001	2.9	Black	8.6
430-490	UTRA4301S3NB-001	3.6	White	8.6
	UTRA4301S3NW-001	3.6	Black	8.6
450-512	UTRA4502S3NB-001	4.1	White	8.6
	UTRA4502S3NW-001	4.1	Black	8.6

Radiation Patterns



Base C Series



C150/450C



CB150/450C



C150/450CS



CB150/450CS

- **Multiband antenna:** UHF and VHF
- **Frequency:** 144-174 MHz / 440-470 MHz
- **Wavelength:** 1/2 (VHF), 5/8 (UHF)
- **Encapsulated tempered silver brass coil**
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omni Multiband UHF Mobile Antenna (144-174/440-470 MHz)

Electrical Characteristics

Wavelength	1/2 (VHF), 5/8 to 1/2 (UHF)
Antenna Style	Encapsulated Coil Whip
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<1.5:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiating Element Material	Stainless Steel Alloy 17-7 PH
Encapsulated Coil Material	Tempered Silver-Plated Brass
Base Material	ABS
Base Diameter (cm)	3.2
Finish	Chrome or Black
Connector	NMO

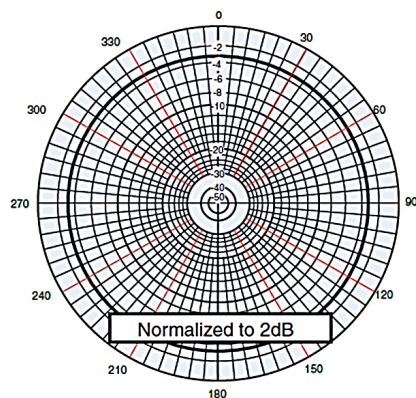
Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
144-148 / 440-450	C144/440C	2/5	Chrome	97
	CB144/440C	2/5	Black	97
	C144/440CS	2/5	Chrome	97
	CB144/440CS	2/5	Black	97
150-174 / 450-470	C150/450C	2/5	Chrome	97
	CB150/450C	2/5	Black	97
	C150/450CS	2/5	Chrome	97
	CB150/450CS	2/5	Black	97

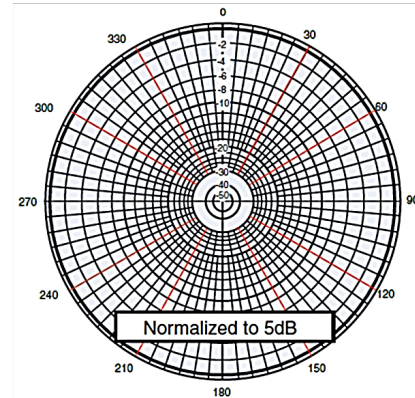
Radiation Patterns

C150/450

Vertical, VHF



Vertical, VHF



WPD136M6C-001



WPD136M6C-001

Omni UHF Mobile Antenna (136-174/380-520/760-870 MHz)

Electrical Characteristics

Antenna Style	Encapsulated Coil Whip
Wavelength	1/2 (VHF), 5/8 (UHF)
Frequency	136-174 (VHF) 380-520 (UHF) 760-870 (Cellular)
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<2.5:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	100
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold-anodized
Radiator Material	Stainless Steel Alloy 17-7 PH
Encapsulated Coil Material	Tempered Silver-Plated Brass
Base Material	ABS
Finish	Black
Ingress Protection	IP66
Base Diameter (cm)	6.35
Connector Type	NMO

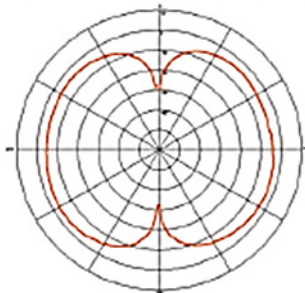
Ordering Information

Frequency (MHz)	Part #	Peak Gain (dBi)	Color	Height (cm)
136-174	WPD136M6C-001	0.2	Black	51
380-520		4.8		
760-870		8.1		

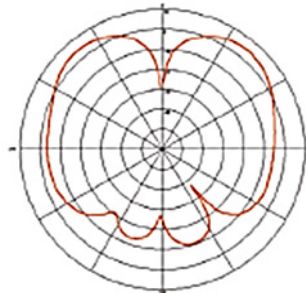
- **Multiband antenna:** UHF, VHF
- **Doesn't require adjustment in field**
- **IP66 rated**
- **A single hole needed for mounting:** allows passage of all four cables

Radiation Patterns

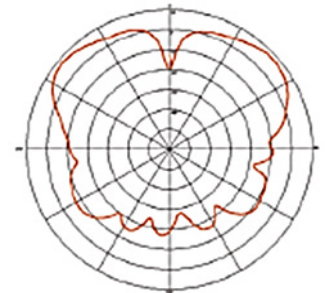
Vertical, 156 MHz

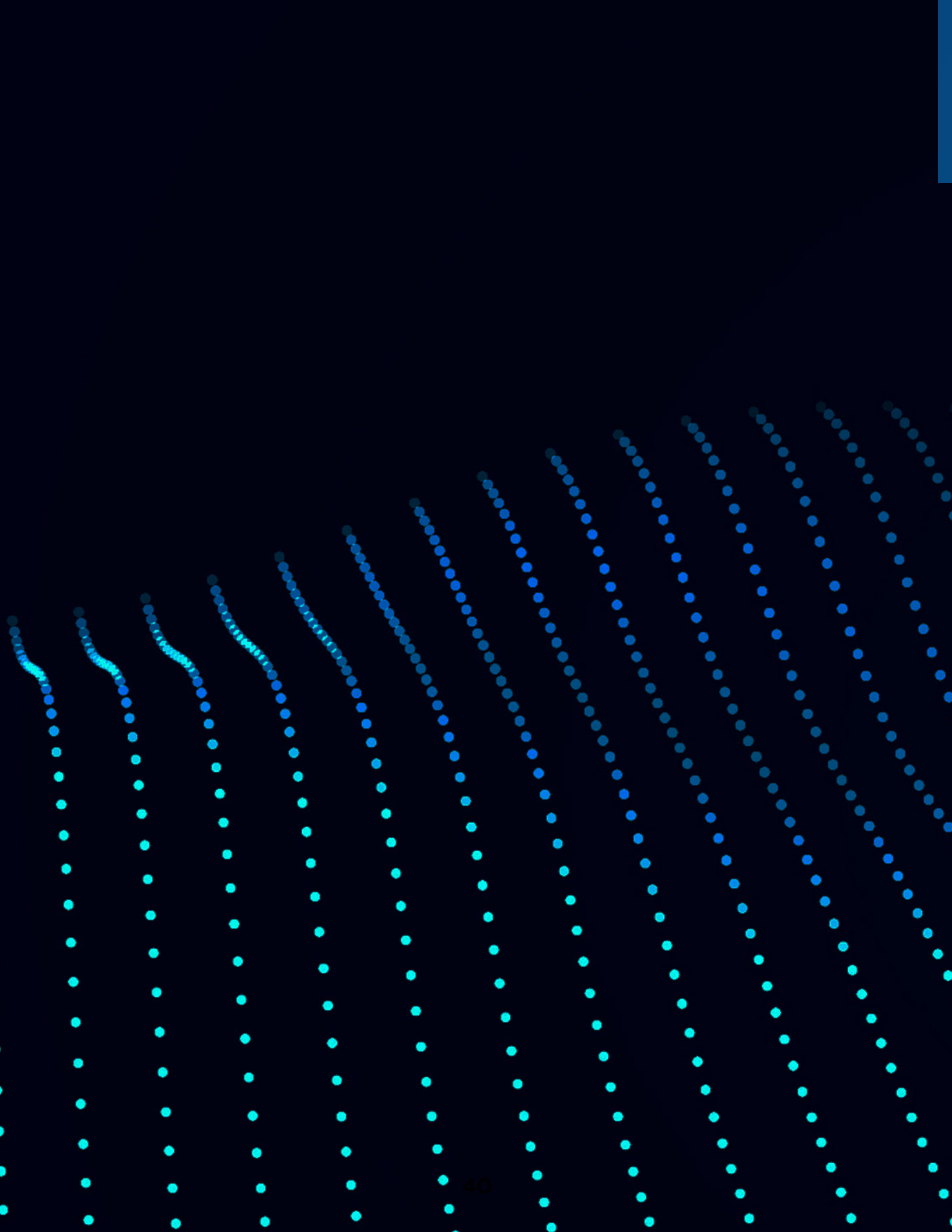


Vertical, 440 MHz



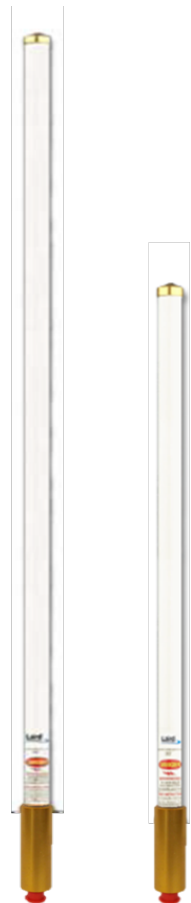
Vertical, 815 MHz





FG Series

Omnidirectional VHF Base Station Antenna (136 - 174 MHz)



FG1520 FG1523

Electrical Characteristics

Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	2.0:1
Horizontal Beam Width (Azimuth)	360°
Input Power (W)	150
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Radiator Material	Copper Coated
Radome Material	Fiberglass
Base and Cap Material	Gold-anodized Aluminum
Color	White
Maximum Wind Resistance (KM/H)	201
Operating Temperature(C)	-35 - 80
Diameter (cm)	3.33
Mounting (Optional)	FM2/FM2SP

- **High-density fiberglass:**
Very durable
- **Collinear design with J-pole style element:**
High performance
- **Doesn't require adjustment in the field:**
Broadband 4 MHz
- **Treated for UV:** Resists sun damage

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Bandwidth (MHz)	Vertical Beam Width	Height (cm)
136-139	FG1360	2	4	75	234
137-139	FG1373	5	4	33	272
140-144	FG1400	2	4	75	234
	FG1403	5	4	33	272
144-148	FG1440	2	4	75	234
	FG1443	5	4	33	272
148-152	FG1480	2	4	75	173
	FG1483	5	4	33	272

CRX Series

Omnidirectional VHF Base Station Antenna (150 - 174 MHz)



CRS150 CRX150 CRX150B

Electrical Characteristics

Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	1.5:1
Horizontal Beam Width (Azimuth)	360°
Input Power (W)	250
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

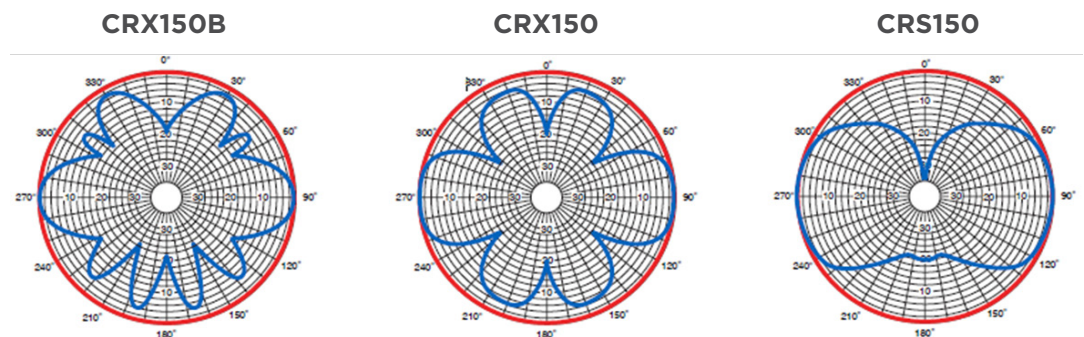
Connectory Type	UHF-Female
Radiator Material	Aluminum 6063-T832
Finish	Chrome plated
Maximum Wind Resistance (KM/H)	128
Diameter (cm)	2.2

- **High-density fiberglass:** Very durable
- **Collinear design:** High performance
- **Treated for UV:** Resists sun damage
- **Fully tested with an RF analyzer:** Ensures the best performance
- **Gold anodized aluminum base and cap:** Will not rust

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Adjusted Band (MHz)	Vertical Beam Width	Height (cm)	Weight (kg)
150-174 (Tunable)	CRS150	2	7	73	114	0.9
	CRX150	5	6	36	294	2.2
	CRX150B	7	4	30	412	3.2

Radiation Patterns



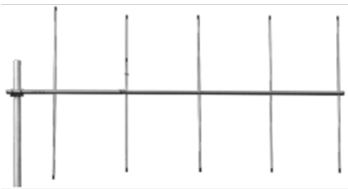
■ Horizontal Plane ■ Vertical Plane

YS Series

Directional Yagi VHF Base Station Antenna (150 - 250 MHz)



YS1503



YS1505

Electrical Characteristics

Radiation Pattern	Directional
Polarization	Vertical/Horizontal
VSWR	<2.0:1
Input Power (W)	300
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Radiator Material	Aluminum 6061-T6
Boom Material	Aluminum 6061-T6
Boom Diameter (cm)	2.2
Fixture of Elements to Boom	Screw
Finish	Chrome
Maximum Wind Resistance (KM/H)	200
Maximum Mast Diameter (cm)	5.08

Ordering Information

Freq. (MHz)	Part #	Gain (dBi)	Horiz. Beam Width	Vert. Beam Width	Front to Back ratio (dB)	# of Elements	Length (cm)	Boom Diameter (cm)
150-174	YS1503	9.25	78	74	17	3	105	2.22
	YS1505	11.2	60	54	20	5	183	3.17
216-225	YS2163	9.25	78	74	17	3	105	2.22
220-250	YS2203	9.25	78	74	17	3	105	2.22
	YS2205	11.2	60	54	20	5	183	3.17

- **Boom terminates in N-Female connector:** Feeds elements via internal line
- **Internal harmonization:** 4 MHz bandwidth and weather resistance
- **No gamma combination:** Will not freeze, corrode, or detune
- **Economical:** Mounting kit model YM78HD included
- **Field adjustable:** Factory tuned to lowest freq.
- **Quick intallation:** Arrives partially assembled

Radiation Patterns

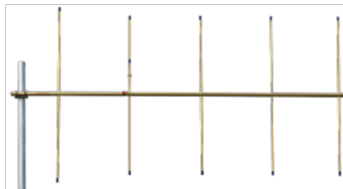
Y Series



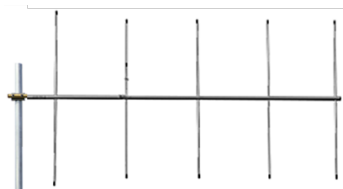
Y1503



YB1503



Y1505



YB1505

- **Boom terminates in N-Female connector:** Feeds elements via internal line
- **Internal harmonization:** 4 MHz bandwidth and weather resistance
- **Anodized in gold and black:** Will not corrode
- **No gamma combination:** Will not freeze, corrode, or detune
- **Economical:** Mounting kit model YM78HD included
- **Fully tested on an analyzer:** Provides best performance and VSWR

Directional Yagi VHF Base Station Antenna (136 - 285 MHz)

Electrical Characteristics

Radiation Pattern	Directional
Polarization	Vertical/Horizontal
VSWR	2,0:1
Input Power (W)	300
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Element Material	Anodized Aluminum 6061-T6
Boom Material	Anodized Aluminum 6061-T6
Boom Diameter (cm)	2.2
Fixture of Elements to Boom	Screw
Finish	Anodized in Gold (Y) and Black (YB)
Maximum Wind Resistance (KM/H)	200

Ordering Information

Freq. (MHz)	Part #	Gain (dBi)	Horiz. Beam Width	Vert. Beam Width	Front to Back Ratio (dB)	# of Elements	Length (cm)	Boom Diameter (cm)
136-150	Y1363	9.25	78	74	17	3	105	2.22
	Y1365	11.2	60	54	20	5	183	3.17
150-174	YB1505	11,2	60	54	20	5	183	3.17
220-250	Y2205	11,2	60	54	20	5	183	3.17
250-285	Y2503	9,25	78	74	17	3	105	2.22
	Y2505	11,2	60	54	20	5	183	3.17

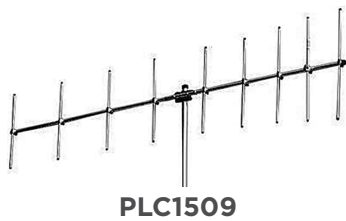
PLC Series

Directional Yagi VHF Base Station Antenna (129 - 222 MHz)



Electrical Characteristics

Radiation Pattern	Directional
Polarization	Vertical/Horizontal
VSWR	1.5:1
Input Power (W)	400
Impedance	50
Electrostatic Discharge Protection	Grounding



Mechanical Characteristics

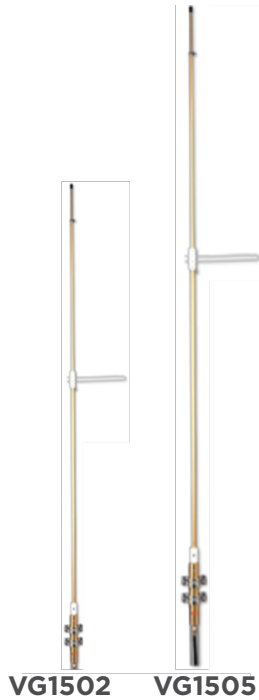
Connectory Type	UHF or N-Female
Element Material	Aluminum 6063-T832
Boom Material	Aluminum 6063-T832
Element Diameter	1.3
Boom Diameter	2.9
Maximum Mast Diameter (cm)	5.4
Finish	Chrome
Maximum Wind Resistance (KM/H)	200

Ordering Information

- **High-density fiberglass:**
Very durable
- **Collinear design with J-pole style element:**
High performance
- **Doesn't require adjustment in the field:**
Broadband 4 MHz
- **Treated for UV:** Resists sun damage

Freq. (MHz)	Part #	Gain (dBi)	Horiz. Beam Width	Vert. Beam Width	Front to Back Ratio (dB)	# of Elements	Length (cm)	Weight (kg)
129-137	PLC1296N	9.1	74	53	20	6	190	3.3
134-142	PLC1346	9.1	74	53	20	6	190	3.3
136-142	PLC1369	13.1	45	35	20	9	386	4.9
142-150	PLC1426	9.1	74	53	20	6	190	3.3
	PLC1426N	9.1	74	53	20	6	190	3.3
	PLC1429N	13.1	45	35	20	9	386	4.9
150-158	PLC1506	9.1	74	53	20	6	190	3.3
	PLC1509	13.1	45	35	20	9	386	4.9
	PLC1509N	13.1	45	35	20	9	386	4.9

Omnidirectional VHF Base Station Antenna (132 - 174 MHz)



Electrical Characteristics

Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	1.5:1
Horizontal Beam Width (Azimuth)	360°
Input Power (W)	250
Impedance	50
Electrostatic Discharge Protection	Grounding

Mechanical Characteristics

Connectory Type	N-Female
Radiator Material	Anodized Aluminium 6061-T6
Finish	Gold
Maximum Wind Resistance (KM/H)	160

- **Economical:** Magnificent design and manufacturing at a low price
- **N-type connector with gold-anodized aluminum cover:** Protective and provides a strong mount
- **Patented internal adapter:** Will not freeze, corrode, or detune
- **Rubberized plastic coating:** Resists moisture and vibrations
- **UV resistant:** Won't crack or wear in sun
- **Thick wall mount:** Durable, safe installation
- **Broadband:** Easy adjustment/operation across many channels and frequencies
- **Field-adjustable:** For quick deployment
- **Telescoping elements:** Easy to transport
- **Fully tested:** Reliable performance

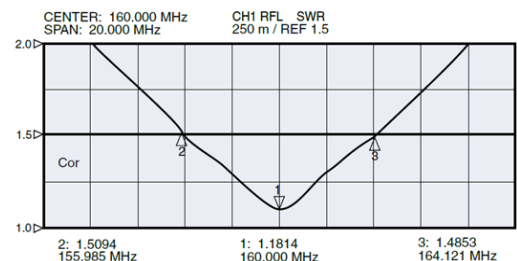
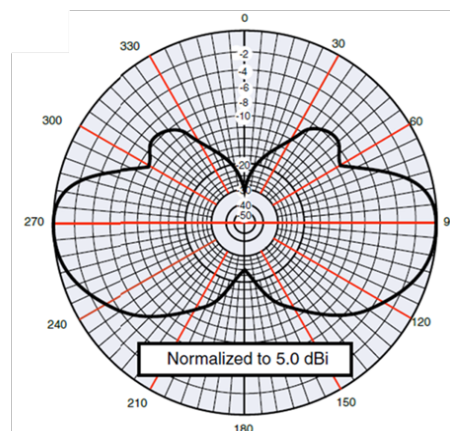
Ordering Information

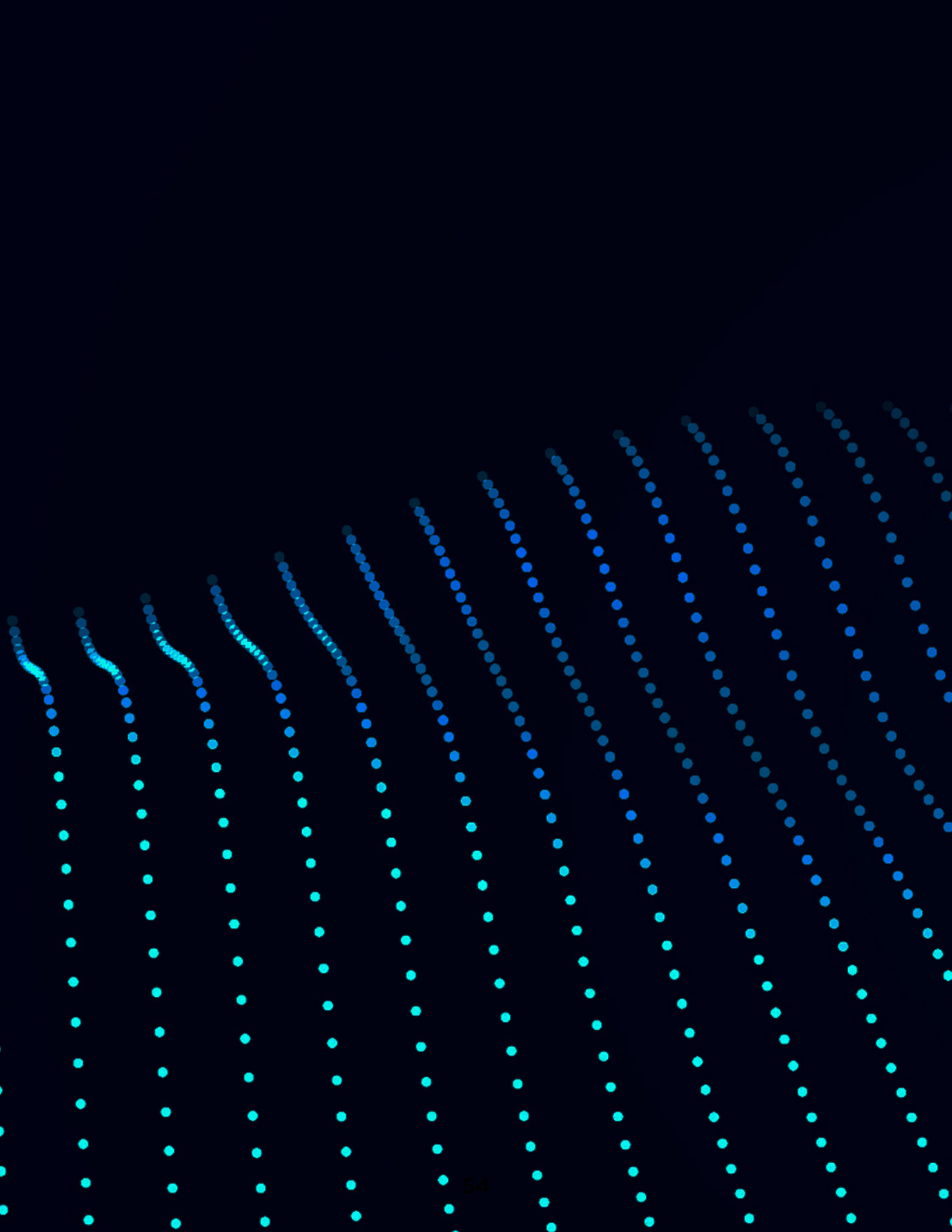
Frequency (MHz)	Part #	Gain (dBi)	Bandwidth (%)	Vertical Beam Width	Height (cm)	Weight (kg)
132-150	VG1325	5	2.5%	70	259	1.13
150-174	VG1502	2	5%	70	140	0.54
150-174	VG1505	5	2.5%	70	259	1.13

Radiation Patterns

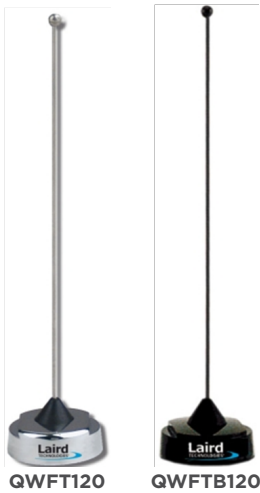
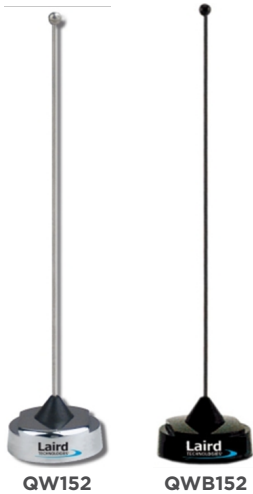
VG1505

Elevation





QW Series



- 1/4 Wavelength
- Economical
- Requires Ground Plane
- 136-256 MHz Frequency: adjustable by cutting
- Gain: 2 dBi
- Stainless steel radiating element: 17-7 PH
- Gold anodized connector: Corrosion-resistant and better transmission

Omnidirectional VHF Mobile Antenna (136 - 256 MHz)

Electrical Characteristics

Antenna Style	Whip
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

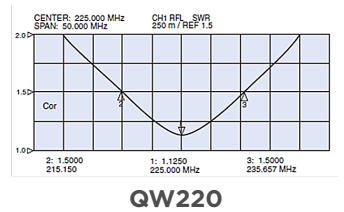
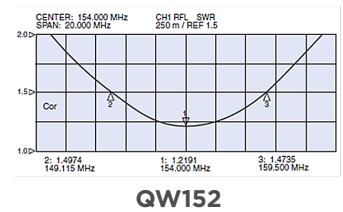
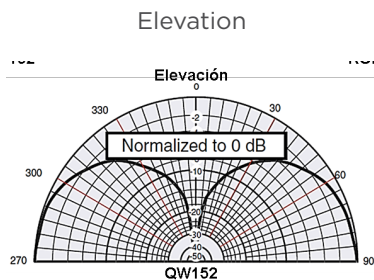
Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	Triple chrome plated brass
Color	Bright Chrome or Black
Connector	NMO

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
136-144	QW136	2	Chrome	56
	QWB136	2	Black	56
144-152	QW144	2	Chrome	48
	QWB144	2	Black	48
152-162	QW152	2	Chrome	46
	QWB152	2	Black	46
162-174	QW162	2	Chrome	43
	QWB162	2	Black	43
220-225	QW220	2	Chrome	32
	QWB220	2	Black	32
232-256	QW246	2	Chrome	30
	QWB246	2	Black	30
118-970	QWFT120	2	Chrome	61
	QWFTB120	2	Black	61

Radiation Patterns



Base B Series - 1/4 Wavelength



Omnidirectional VHF Mobile Antenna (132 - 250 MHz)

Electrical Characteristics

Antenna Style	Whip w/ charging coil in base
Radiation Pattern	Omnidirectional
Polarization	Vertical
VSWR	<1.5:1
Horizontal Beam Width (Azimuth)	360°
Vertical Beam Width	110°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	ABS
Color	Bright Chrome or Black
Base Diameter (cm)	3.65
Weight (kg)	0.22
Connector	NMO

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Base Style	Color	Height (cm)
132-928	B132	2	Solid	Chrome	53
	BB132	2	Solid	Black	53
132-525	B132R	2	Spring	Chrome	53
	BB132R	2	Spring	Black	53
	B132S	2	Spring	Chrome	53
	BB132S	2	Spring	Black	53

- **1/4 Wavelength**
- **Robust ABS base:** injection molded around brass core, waterproof
- **118-174 MHz Frequency:** adjustable by cutting
- **Gain:** 2 dBi
- **Stainless steel radiating element:** 17-7 PH
- **Gold anodized connector:** Corrosion-resistant and better transmission
- **Easily remove rod for car wash:** waterproof base
- **Stainless steel rod:** 17-7 PH anodized, resists rust and bending
- **Triple chrome plated brass insert:** bridges base and rod
- **Silver welded joints**
- **Tight-sealed base O ring**
- **Low loss coil:** provides dimension and frequency stability

Radiation Patterns



Base B Series - 1/2 Wavelength



B1322N B1422NS B1322NR



BB1372N BB1442NS BB1442NR

- 1/2 Wavelength
- No ground plane needed
- Low-loss base load coil
- 132-174 MHz Frequency: adjustable by cutting
- Stainless steel radiating element: 17-7 PH
- Gold anodized connector: Corrosion-resistant and better transmission

Omnidirectional VHF Mobile Antenna (132 - 174 MHz)

Electrical Characteristics

Wavelength	1/2 Wave
Antenna Style	Whip w/ charging coil in base
Radiation Pattern	Omnidirectional
Polarization	Vertical
Bandwidth (MHz)	23
VSWR	<1.5:1
Horizontal Beam Width (Azimuth)	360°
Vertical Beam Width	70°
Maximum Input Power (W)	100
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	Brass/ABS
Color	Bright Chrome or Black
Base Diameter (cm)	3.65
Weight (kg)	0.22
Connector	NMO

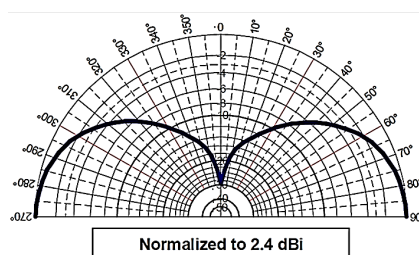
Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Vert. Beam Width	Base Style	Color	Height (cm)
132-174	B1322N	2	70°	Solid	Chrome	140
	B1322NR	2	70°	Rubber spring	Chrome	124
	BB1322NR	2	70°	Rubber spring	Black	124
137-150	B1322NS	2	70°	Metal spring	Chrome	124
	B1372N	2	70°	Solid	Chrome	140
144-174	BB1372N	2	70°	Solid	Black	140
	B1442N	2	70°	Solid	Chrome	124
	BB1442N	2	70°	Solid	Black	124
	B1442NS	2	70°	Metal spring	Chrome	124
	BB1442NS	2	70°	Metal spring	Black	124

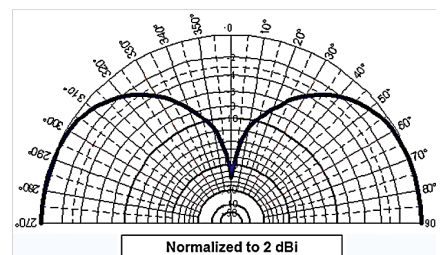
Radiation Patterns

Elevation

B1322N



B1442N



Base CW Series - 5/8 Wavelength Broadband



CW1503



CWB1503



CW1503S



CWB1503S

- **5/8 Wavelength**
- **Patented base load per circuit**
- **132-174 MHz Frequency:** doesn't require adjusting
- **Broadband**
- **Stainless steel radiating element:** 17-7 PH
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omnidirectional VHF Mobile Antenna (132- 174 MHz)

Electrical Characteristics

Antenna Style	Whip w/ base load per circuit
Radiation Pattern	Omnidirectional
Polarization	Vertical
Percentage bandwidth (MHz)	Exceeds 10% @ VSWR 1.8:1
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

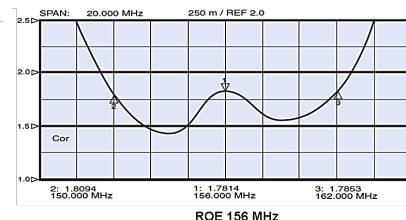
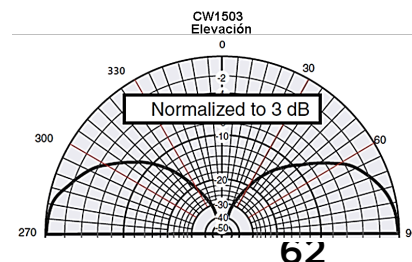
Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Base Material	ABS
Color	Bright Chrome or Black
Connector	NMO / N-Female

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Base Style	Color	Height (cm)	Base Diameter (cm)	Weight (kg)
132-144	CW1323	3	Solid	Chrome	128	3.65	0.22
	CW1323S	3	Spring	Chrome	128	3.65	0.22
138-150	CW1383	3	Solid	Chrome	128	3.65	0.22
	CW1383S	3	Spring	Chrome	128	3.65	0.22
144-156	CW1443	3	Solid	Chrome	128	3.65	0.22
	CWB1443	3	Solid	Black	128	3.65	0.22
	CW1443S	3	Spring	Chrome	128	3.65	0.22
	CWB1443S	3	Spring	Black	128	3.65	0.22
150-162	CW1503	3	Solid	Chrome	128	3.65	0.22
	CWB1503	3	Solid	Black	128	3.65	0.22
	CW1503S	3	Spring	Chrome	128	3.65	0.22
	CWB1503S	3	Spring	Black	128	3.65	0.22
153-169	CW1533	3	Solid	Chrome	128	3.65	0.22
	CWB1533	3	Solid	Black	128	3.65	0.22
	CW1533S	3	Spring	Chrome	128	3.65	0.22
	CWB1533S	3	Spring	Black	128	3.65	0.22
162-174	CW1623	3	Solid	Chrome	128	3.65	0.22
	CWB1623	3	Solid	Black	128	3.65	0.22
	CW1623S	3	Spring	Chrome	128	3.65	0.22

Radiation Patterns

Elevation - CW1503



Phantom Elite Series

Omnidirectional VHF Mobile Antenna (144 - 170 MHz)

Electrical Characteristics

Antenna Style	Low Profile
Radiation Pattern	Omnidirectional
Polarization	Vertical
Bandwidth (MHz)	5
VSWR	<2.0:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	60
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiating Element Material	Radiant Circuit
Base Material	ABS
Color	White or Black
Base Diameter (cm)	8.2
Weight (kg)	0.11
Connector	Bayonet (3/4" adapter included)

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
144-148	ETRA1440	0	White	6
	ETRAB1440	0	Black	6
150-155	ETRA1500	0	White	6
	ETRAB1500	0	Black	6
155-160	ETRA1550	0	White	6
	ETRAB1550	0	Black	6
160-165	ETRAB1600	0	Black	6
	ETRA1650	0	White	6
165-170	ETRA1650	0	White	6
	ETRAB1650	0	Black	6



- **Low profile:** 6 cm height
- **Patented radiant PCB**
- **144-170 MHz Frequency:** adjustable by allen key
- **Silver-tin welded joints:** ensure mechanical and electrical connection
- **Molded ABS plastic frame:** nearly indestructible
- **Bayonet insert notch on mount:** point toward front and rear of vehicle
- **5 MHz Bandwidth**
- **Requires no adjustment**
- **Bayonet connector**
- **Gold anodized connector:** Corrosion-resistant and better transmission

Base C Series - Multiband



C150/450C



CB150/450C



C150/450CS

CB150/450CS

- **Multiband:** UHF and VHF
- **144-174 MHz and 440-470 MHz** - adjustable by cutting
- **Base loading coil and encapsulated tempered silver brass coil**
- **NMO connector**
- **Gold anodized connector:** Corrosion-resistant and better transmission

Omnidirectional VHF Mobile Antenna (144-170 / 440-450 MHz)

Electrical Characteristics

Antenna Style	Whip w/ charging coil in base
Radiation Pattern	Omnidirectional
Polarization	Vertical
Wavelength	1/2 (VHF), 5/8 to 1/2 (UHF)
VSWR	<1.5:1
Horizontal Beam Width (Azimuth)	360°
Maximum Input Power (W)	200
Impedance (Ohms)	50

Mechanical Characteristics

Contact Material	Gold Plated
Radiator Material	Stainless Steel Alloy 17-7 PH
Encapsulated Coil Material	Tempered Silver-plated Brass
Base Material	ABS
Color	Chrome or Black
Base Diameter (cm)	3.2
Connector	NMO

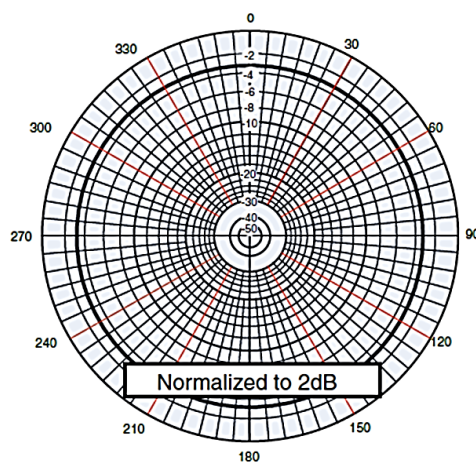
Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Base Style	Color	Height (cm)
144-148 / 440-450	C144/440C	4	Solid	Chrome	97
	CB144/440C	7	Solid	Black	97
	C144/440CS	4	Metal Spring	Chrome	97
	CB144/440CS	7	Metal Spring	Black	97
150-174 / 450-470	C150/450C	2	Solid	Chrome	97
	CB150/450C	2	Solid	Black	97
	C150/450CS	2	Metal Spring	Chrome	97
	CB150/450CS	2	Metal Spring	Black	97

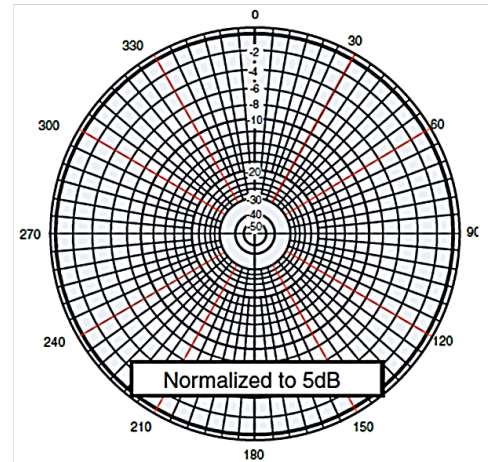
Radiation Patterns

Elevation

C150/450 - VHF



C150/450 - UHF



GPS Series

GPS and Spring for External VHF Antenna



GPSNMOAO

Ordering Information

Frequency (MHz)	Part #	Gain (dBi)	Color	Height (cm)
1.575 MHz	GPSNMOAO	4	Chrome	1.9
	GPSBNMOAO	7	Black	1.9

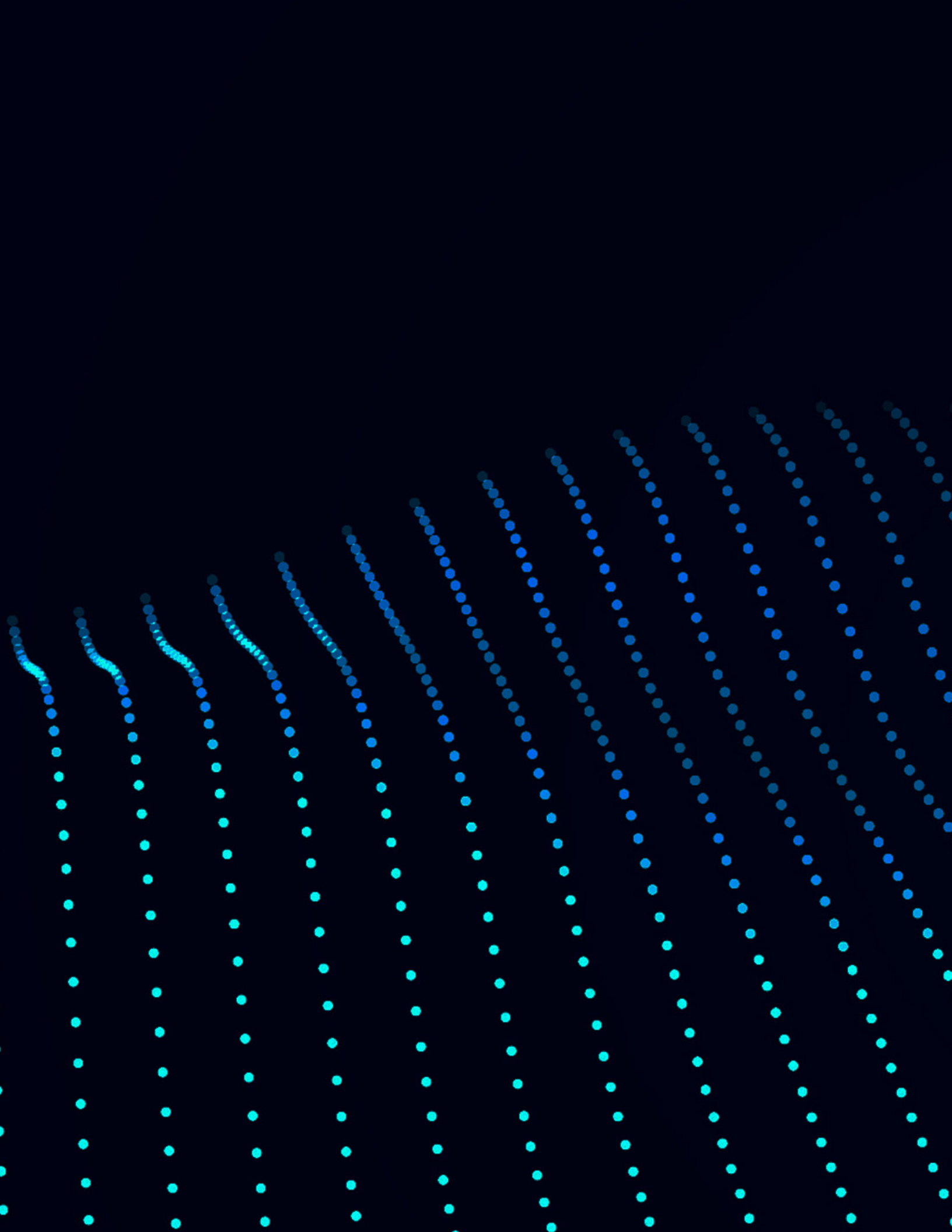


GPSBNMOAO



(Phantom Antenna and NMO connector not included)

- **Multiband:** VHF/GPS AVL
- **132-285 MHz (VHF), 1.575 MHz (GPS),**
- **GPS AVL antenna (automatic vehicle location) with integrated spring for external NMO antenna**
- **Low profile**
- **Includes 5.18 meter RG174 cable with connector of your choice**



Accessories

3/4" NMO Mounts

Part #	Type	Color	Hole Diameter	Cable Length	Cable Type	Connector
MB8U	NMO ceiling		3/4" (19 mm)	5.18 m	RG58U	None
MB8UB	NMO ceiling		3/4" (19 mm)	5.18 m	RG58U	Loose folding BNC connector
MB8UM	NMO ceiling		3/4" (19 mm)	5.18 m	RG58U	Loose folding mini UHF connector
MB8UN	NMO ceiling		3/4" (19 mm)	5.18 m	RG58U	Loose folding N connector
MB8UP	NMO ceiling		3/4" (19 mm)	5.18 m	RG58U	Loose folding PL259 connector
MB8USM	NMO ceiling		3/4" (19 mm)	5.18 m	RG58U	Loose folding SMA connector
MB8UT	NMO ceiling		3/4" (19 mm)	5.18 m	RG58U	Loose folding TNC connector
NMOHPC	High-performance NMO barrel	Chrome	3/4" (19 mm)	None	None	LNone
NMOHPCG518	High performance NMO, IP67 Rated	Chrome	3/4" (19 mm)	5.18 m	RG58U	None
NMOHPCGFMEM518	High performance NMO	Chrome	3/4" (19 mm)	5.18 m	RG58U	Loose male FME connector
NMOHPCGMUHM518	High performance NMO	Chrome	3/4" (19 mm)	5.18 m	RG58U	Loose male Mini UHF connector
NMOHPCGSMAM518	High performance NMO	Chrome	3/4" (19 mm)	5.18 m	RG58U	Loose male SMA connector
NMOHPCGTNCM518	High performance NMO	Chrome	3/4" (19 mm)	5.18 m	RG58U	Loose male TNC connector
NMOHPCGUHFM518	High performance NMO	Chrome	3/4" (19 mm)	5.18 m	RG58U	Loose male UHF PL259



Accessories













Mini Mag Mount

Part #	Type	Diameter	Hole Diameter	Cable Length	Cable Type	Color	Connector
GM8U	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Chrome	None
GM8UB	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Chrome	Loose folding BNC
GM8UM	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Chrome	Loose folding Mini UHF
GM8UP	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Chrome	Loose folding PL259
GM8USM	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Chrome	Loose folding SMA
GM8UT	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Chrome	Loose folding TNC
GMB8U	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Black	None
GMB8UB	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Black	Loose folding BNC
GMB8UM	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Black	Loose folding BNC
GMB8UN	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Black	Loose folding N
GMB8UP	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Black	Loose folding PL259
GMB8UT	Mini Magnetic NMO	6.03 cm	3/4" (19 mm)	3.66 m	RG58U	Black	Loose folding TNC


















Accessories

Mount Accessories

	Part #	Description
	GMRO	Rubber boot for mini magnetic NMO mounting, 6.03 cm
	GRO	Rubber boot for magnetic NMO mounting, 8.25 cm diameter
	MABNUT	External nut for 3/8" mounts
	MABO	Ceiling mount NMO, 3/8" hole (9.5 mm), loose, no cable
	MABTO	Ceiling mount NMO, 3/4" hole (19 mm) or 3/8" (9.5 mm), plate up to 6.5 mm thick, loose, no cable
	MABVTO	Ceiling mount NMO, 3/4" hole (19 mm) or 3/8" (9.5 mm), plate up to 13 mm thick, loose, no cable
	MBNUT	External nut for 3/4" mounts
	MBO	Ceiling mount NMO, 3/4" hole (19 mm), loose, no cable
	MOGSK	Gaskets for 3/4" NMO mounts, six pack
	MORNG	O rings for NMO assemblies, six pack
	P34	3/4" plugs, six pack
	P38	3/8" plugs, six pack

Accessories

Base Station Brackets

	Part #	Bracket Type	Material	Max Mast Diameter	Length	Qty	Additional Description
	FM1	U type	Stainless Steel	4.76 cm	N/A	2	
	FM2	U type	Aluminum	6.35 cm	N/A	2	
	FM2SP	U type	Aluminum	6.35 cm	N/A	1	
	UM-UB	U type	Stainless Steel	5.08 cm	N/A	2	Spare U-Bolt kit for UM and UML mount
	FM3	Robust Mast Mount	Die cast aluminum	7.62 cm	N/A	2	For heavy antennas and masts
	FM3W	Side wall Mount	Die cast aluminum	7.62 cm	N/A	2	Welded center, for heavy antennas and masts
	FMW4	Side wall Mount	Stainless Steel	6.35 cm	N/A	2	For YMST4 and YMST18 masts
	UM	Wall/Mast Mount	Galvanized Steel	3.81 cm	38.1 cm	1	90° adjustable tilt
	UML	Wall/Mast Mount	Galvanized Steel	3.81 cm	58.42 cm	1	90° adjustable tilt
	YMST18	Wall Mast	Aluminum	3.81 cm	54.8 cm	1	
	YMST4	Wall Mast	Aluminum	3.175 cm	12.1 cm	1	
	WMB8	Wall Mount	Galvanized Steel	3.81 cm (8 inch standoff from wall)	N/A	1	Anti-corrosion plating. Distance between wall: 20 cm
	YM125HD	Robust Yagi Mount	Die cast aluminum	3.17 cm	N/A	1	
	YM78	Robust Yagi Mount	Die cast aluminum	4.12 cm	N/A	1	
	YM78HD	Robust Yagi Mount	Die cast aluminum	2.22 cm	N/A	1	

Accessories

Mobile Whip Accessories

	Part #	Description
	AO	Low profile base for Base Series A antennas
	AS	Base Series A antenna coil spring with key and nut, chrome color
	ASB	Base Series A antenna coil spring with key and nut, black color
	BCORNG	O rings for Base Series B and Base Series C antennas, pack of six
	HWS0316	#10 32 x 3/16 nut for splints of Base Series B and C antennas, pack of 12
	MBC	VHF mobile antenna to VHF base antenna converter, UHF connector, SO239
	MBC800	800/900 MHz mobile antenna to 800/900 MHz base antenna converter, N connector
	MBC800-NGP	800/900 MHz mobile antenna to 800/900 MHz base antenna converter, N connector, doesn't require ground plane
	MBC800LBT	>800 MHz mobile antenna to >800 MHz base antenna converter, N connector and wall mounting
	MBCN	VHF mobile antenna to VHF base antenna converter, UHF connector, N
	QWNUT	External nut for QW series antennas, chrome color
	QWNUTB	External nut for QW series antennas, black color
	QWRCB	Plugs for QW series antennas, black color
	QWRCB-6	Plugs for QW series antennas, black color, six pack
	QWRC	Plugs for QW series antennas, chrome color
	QWRC-6	Plugs for QW series antennas, chrome color, six pack
	RO49T	Replacement 106 cm whip rod with ball, chrome color
	ROB49T	Replacement 106 cm whip rod with ball, black color
	S	Coil spring for Base Series B and C antennas, chrome color
	SB	Coil spring for Base Series B and C antennas, black color
	SRS-100-B-001	Elastomer spring for Base Series B coils, 2.54 mm diameter rod, black color
	SRS-100-C-001	Elastomer spring for Base Series C coils, 2.54 mm diameter rod, black color

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