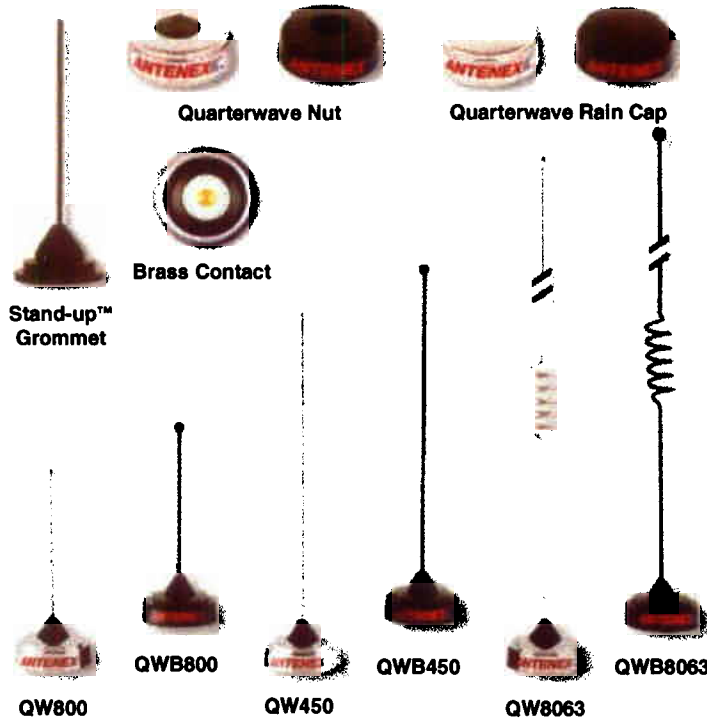


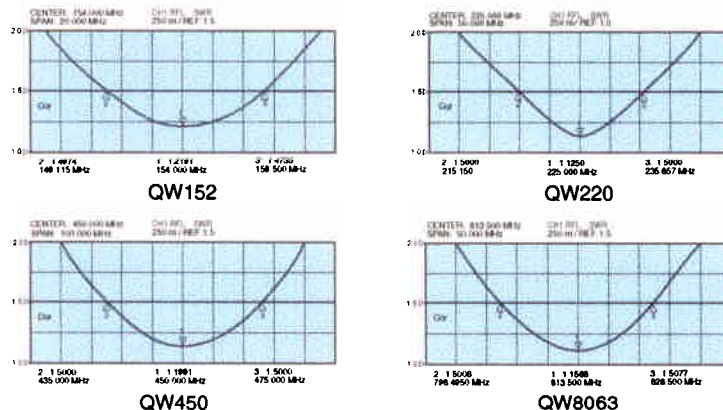
Quarterwave Antennas Brass Contact



Even our least expensive mobile antennas receive the most detailed attention. Both quarterwaves and 3 dB models feature a brass button contact and heavy duty specially formulated Stand-Up™ grommets that last longer and stay straighter. For any mobile application, you can be sure that **ANTENEX®** has a feature packed solution for you.



VSWR



Technical Data - Product Features & Information

- Gain:** Unity for 1/4 wave antennas and 3 dB for open coil flexible models.
- Frequency Range:** See model.
- VSWR:** <2.0:1
- Maximum Power:** 200 watts
- Bandwidth @2.0:1:** QW152 - 18 MHz QW450 - 80 MHz
QW800 - 150 MHz QW8253 - 40 MHz
- Impedance:** 50 ohms
- Tuning:** Mid-band is standard. Custom tuning is available.
- Mounting Base:** Brite or black chrome plated brass locking nut.
- Radiator:** Type 302 stainless steel. Electropolished or black chrome plate on open coil collinears. Brite finish or black chrome plate on quarterwaves.
- Contact:** Brass button.
- Mounts to:** 3/4" hole, 3/8" hole, Magnetic & Mini-Trunk mounts.

Ordering Guide - Clear, Easy & Sensible!

QWB8253 = Chrome Locking Nut Style, Black, 825-896 MHz, 3 dB.

QW	Antenna Style	QW = Chrome locking nut style Antennas Q = Full length Quarterwave		
B	Finish	Blank = Chrome Finish B = Black Finish		
825	Frequency	Frequency component of part number in bold below:		
		FT (118-970)	27-54	136-144
		152-162	162-174	220-225
		430-450	450-470	470-490
		806-866	806-896	825-896
3	Gain	Blank = Unity 3 = 3 dB		

Model Frequency Radiator MSRP

UNITY GAIN MODELS

Stainless Models

Q27S	27-54 MHz	102" 1/4 Wave	104.97
QW136	136-144 MHz	1/4 Wave	8.25
QW144	144-152 MHz	1/4 Wave	8.25
QW152	152-162 MHz	1/4 Wave	8.25
QW162	162-174 MHz	1/4 Wave	8.25
QW220	220-225 MHz	1/4 Wave	8.25
QW406	406-430 MHz	1/4 Wave	8.25
QW430	430-450 MHz	1/4 Wave	8.25
QW450	450-470 MHz	1/4 Wave	8.25
QW470	470-490 MHz	1/4 Wave	8.25
QW490	490-512 MHz	1/4 Wave	8.25
QW800	806-896 MHz	1/4 Wave	8.25
QW900	896-970 MHz	1/4 Wave	8.25
QWFT120	Field Tunable	1/4 Wave	9.90

Black Models

QWB***	Customer Specified 1/4 Wave		19.75
QWB136	136-144 MHz	1/4 Wave	14.75
QWB144	144-152 MHz	1/4 Wave	14.75
QWB152	152-162 MHz	1/4 Wave	14.75
QWB162	162-174 MHz	1/4 Wave	14.75
QWB220	220-225 MHz	1/4 Wave	14.75
QWB406	406-430 MHz	1/4 Wave	14.75
QWB430	430-450 MHz	1/4 Wave	14.75
QWB450	450-470 MHz	1/4 Wave	14.75
QWB470	470-490 MHz	1/4 Wave	14.75
QWB490	490-512 MHz	1/4 Wave	14.75
QWB800	806-896 MHz	1/4 Wave	14.75
QWB900	896-970 MHz	1/4 Wave	14.75
QWFTB120	Field Tunable	1/4 Wave	16.40

3 dB GAIN MODELS

Stainless Models

QW8063	806-866 MHz	Open Coil Flexible	12.72
QW8253	825-896 MHz	Open Coil Flexible	12.72
QW8963	896-970 MHz	Open Coil Flexible	12.72

Black Models

QWB8063	806-866 MHz	Open Coil Flexible	19.22
QWB8253	825-896 MHz	Open Coil Flexible	19.22
QWB8963	896-970 MHz	Open Coil Flexible	19.22

Model Description MSRP

ACCESSORIES

QWNUT	Quarterwave Nut	3.98
QWNUTB	Quarterwave Nut Black	4.38
QWRC	Quarterwave Rain Cap	3.29
QWRCB	Quarterwave Rain Cap Black	4.48

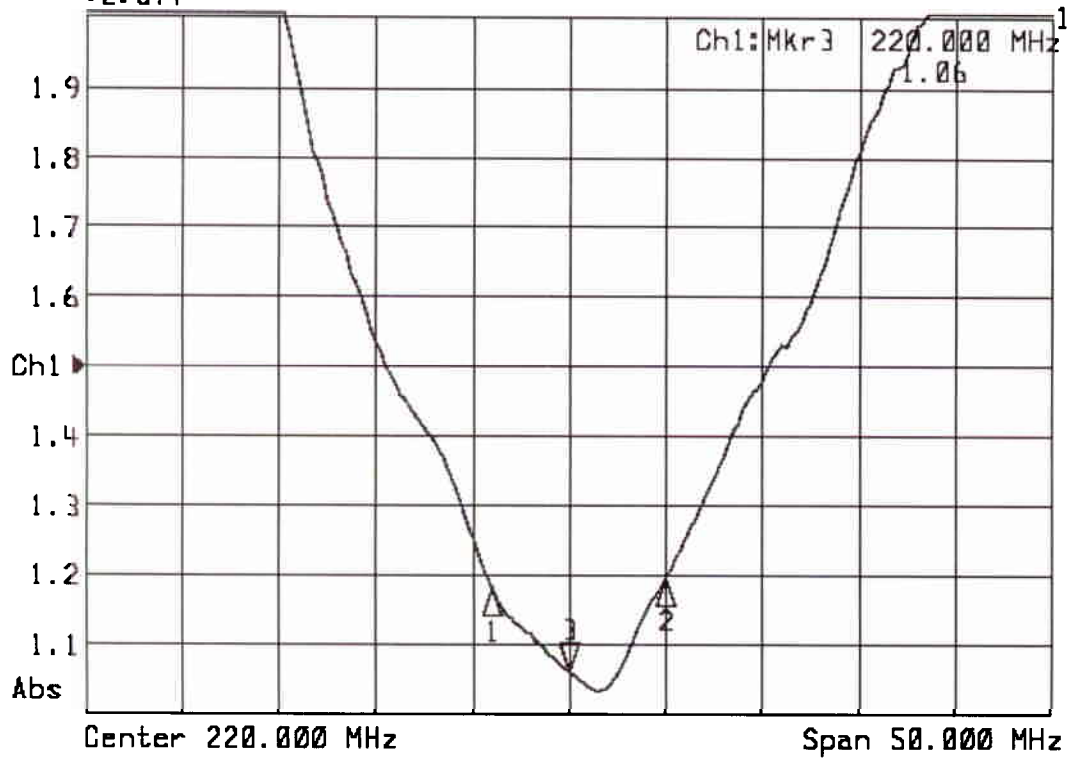
See pages 32-37 for mounting options!

Vertical Field Patterns



See <http://www.antenex.com> for product additions and

►1: Reflection /M SWR 0.1 / Ref 1.50 C
►2: Off



1: Mkr (MHz)		2: Mkr (MHz)	dB
1:	216.00		1.18
2:	225.00		1.20
3>	220.00		1.06

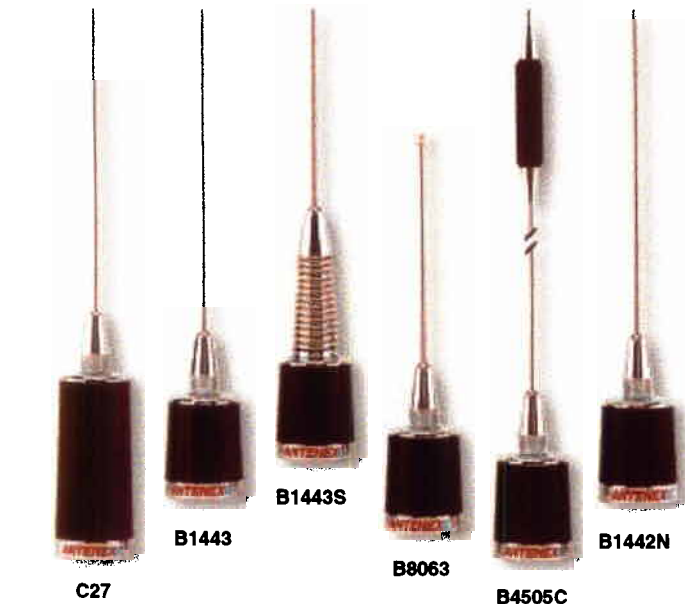
Antenex QW220

MB 08-07-02

by (08/07/02)

Mobile Load Coil Antennas - Lowband, VHF, UHF, 800MHz & 900MHz

Our mobile antennas are designed and built for demanding applications. They have proven themselves to outlast the cars they are mounted on. Each model is permanently marked for model and frequency. **ANTENEX**® mobiles are used extensively on municipal vehicles, in off road racing, on industrial vehicles, taxi cabs and other high endurance applications such as police cruisers, emergency vehicles, and forestry service vehicles. The detailed attention given to the manufacture and design of our coils and coil housings ensure that they will last for years. We manufacture over 100 variations. Our no ground plane antennas give you the flexibility you need in any mounting application, while our dual band and wide band models allow you to get full value out of today's advanced radios. If you cannot find the right **ANTENEX**® product for your mobile application, please contact us for pricing and availability.



Model	Frequency	Gain	Whip Style	MSRP
LOWBAND DC GROUND BASE LOADED 1/4 WAVE MODELS				
C27	26-28 MHz	Unity	49" Tapered	39.54
C30	30-35 MHz	Unity	49" Tapered	39.54
C34	34-37 MHz	Unity	49" Tapered	39.54
C37	37-40 MHz	Unity	49" Tapered	39.54
C40	40-47 MHz	Unity	49" Tapered	39.54
C47	47-50 MHz	Unity	49" Tapered	39.54
VHF 1/4 WAVE MODELS				
B66	66-174 MHz	Unity	49" Tapered	33.30
VHF 1/4 WAVE BROADBAND MODELS				
B132	132-928 MHz	Unity	21" Straight	26.00
B132S	132-525 MHz	Unity	21" Straight	36.17
VHF 5/8 WAVE BROADBAND MODELS				
B1323	132-174 MHz	3 dB	55" Tapered	37.61
B1443	144-174 MHz	3 dB	49" Tapered	36.30
B2003	200-250 MHz	3 dB	33" Straight	36.30
B2503	250-280 MHz	3 dB	24 1/2" Straight	36.30
VHF NO GROUND PLANE BASE LOADED 1/2 WAVE MODELS				
B1322N	132-174 MHz	2.4 dB	55" Tapered	36.30
B1442N	144-174 MHz	2.4 dB	49" Tapered	36.30
B2002N	200-225 MHz	2.4 dB	29 1/2" Straight	36.30
UHF 5/8 WAVE MODELS				
B4063	406-430 MHz	3 dB	13" Straight	31.50
B4303	430-450 MHz	3 dB	11 13/16" Straight	31.50
B4503	450-470 MHz	3 dB	11" Straight	31.50
B4703	470-490 MHz	3 dB	10 11/16" Straight	31.50
B4903	490-512 MHz	3 dB	10 1/2" Straight	31.50

Ordering Guide - Clear, Easy & Sensible!

BB4505CNS = Medium Black Base, 450-470 MHz, 5 dB, Closed Phasing Coil, No Ground Plane Design, with Shock Spring.

B	Antenna Style	B = Medium Base C = Tall Base
B	Finish	Blank = Chrome B = Black Finish W = White Housing
450	Frequency	Frequency component of part number in bold below: 26-28 30-35 34-37 37-40 40-47 47-50 66-174 132-525 132-174 132-928 144-174 200-225 200-250 250-280 406-430 430-450 450-470 470-490 490-512 806-866 896-970
5	Gain	Blank = Unity 2 = 2.4 dB 3 = 3 dB 5 = 5 dB
C	Phasing Coil	Blank = Straight or Tapered Rod C = Closed Phasing Coil (collinear radiator only)
N	Ground Plane	Blank = Ground Plane required N = No Ground Plane required
S	Spring Option	S = Spring Option

All coils are tuned on a network analyzer before packaging to assure proper performance.

Model	Frequency	Gain	Whip Style	MSRP
UHF CLOSED COIL COLLINEAR MODELS				
B4065C	406-430 MHz	5 dB	37 3/8" Collinear	39.24
B4305C	430-450 MHz	5 dB	34 1/8" Collinear	39.24
B4505C	450-470 MHz	5 dB	32 3/4" Collinear	39.24
B4705C	470-490 MHz	5 dB	31 1/4" Collinear	39.24
B4905C	490-512 MHz	5 dB	29 1/8" Collinear	39.24
UHF NO GROUND PLANE BASE LOADED 1/2 WAVE MODELS				
B4302N	430-450 MHz	2.4 dB	10 5/8" Straight	32.46
B4502N	450-470 MHz	2.4 dB	10 5/16" Straight	32.46
UHF NO GROUND PLANE CLOSED COIL COLLINEAR MODELS				
B4065CN	406-430 MHz	5 dB	34 1/8" Collinear	46.87
B4305CN	430-450 MHz	5 dB	32 7/8" Collinear	46.87
B4505CN	450-470 MHz	5 dB	30 1/4" Collinear	46.87
B4705CN	470-490 MHz	5 dB	28 7/16" Collinear	46.87
B4905CN	490-512 MHz	5 dB	27 1/8" Collinear	46.87
800 MHz BASE LOADED 5/8 WAVE MODELS				
B8063	806-866 MHz	3 dB	4 7/8" Straight	26.88
800/900 MHz BASE LOADED CLOSED COLLINEAR MODELS				
B8065C	806-866 MHz	5 dB	16" Collinear	42.51
B8965C	896-970 MHz	5 dB	13 1/4" Collinear	42.51
800 MHz NO GROUND PLANE BASE LOADED 1/2 WAVE MODELS				
B8062N	806-866 MHz	2.4 dB	4 7/8" Straight	30.08
800/900 MHz NO GROUND PLANE CLOSED COLLINEAR MODELS				
B8065CN	806-866 MHz	5 dB	16" Collinear	49.28
B8965CN	896-970 MHz	5 dB	13 1/4" Collinear	49.28
Model	Description	MSRP		
SPRING OPTION ACCESSORY				
S	Shock Spring for B and C Coils	10.36		
SB	Black Chrome Shock Spring for B & C Coils	16.90		
BLACK CHROME FINISH OPTION				
B	Black LowBand, VHF, UHF or 800/900 MHz	12.50		
MOBILE TO BASE CONVERTERS				
MBC	Mobile-to-Base Conv. for VHF, UHF w/ SO239	30.90		
MBCN	Mobile-to-Base Conv. for VHF, UHF w/ N Term.	30.90		
MBC800	Mobile-to-Base Conv. for 800/900 MHz w/ N	30.90		

Add "S" to the end of the part number to receive a coil with spring.

Add a "B" to the part number to indicate black finish.

See the Ordering Guide above for details.

800/900 MHz models are not available with a spring.

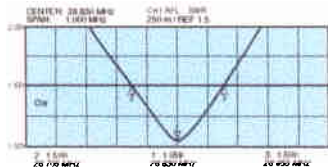
Models with whips >49" are not available in black but may be painted upon installation.

Features & Benefits

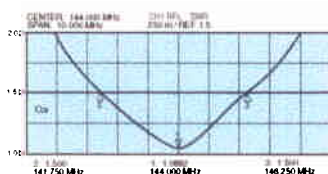
- Triple Chrome Plated Rod Ferrules & Bushings
- Three Dimensional Coil Form
- Silver Soldered Contacts
- 17-7 ph Stainless Whip
- Gold Push Pin Contact
- O-ring in the Base

Custom
Tuning
Available.
Only \$10.00

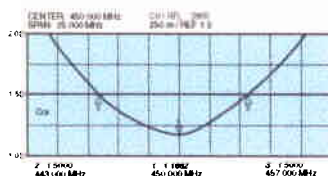
VSWR



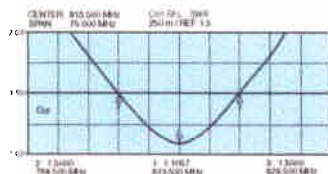
C27



B1443



B4505C



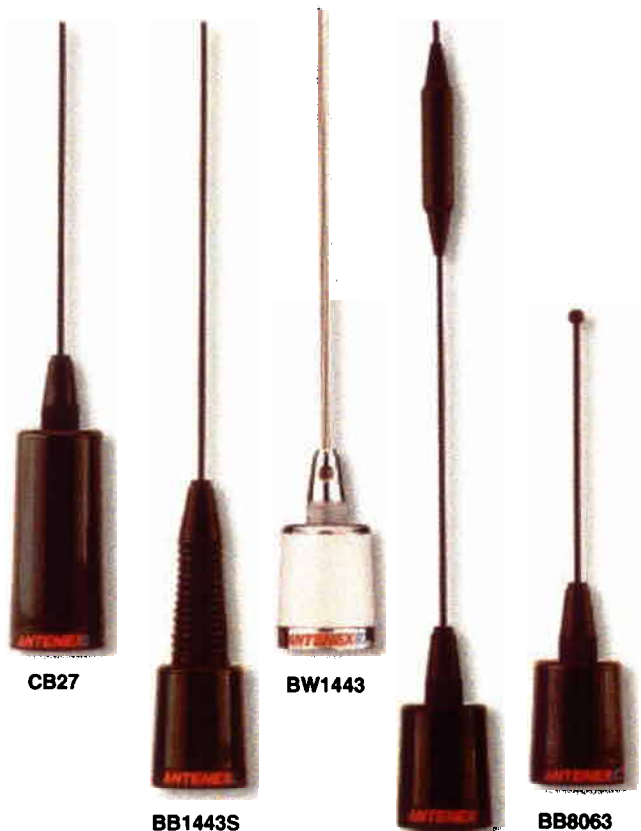
B8065C



Removable Rod



Gold Contact
Lifetime Product Identification



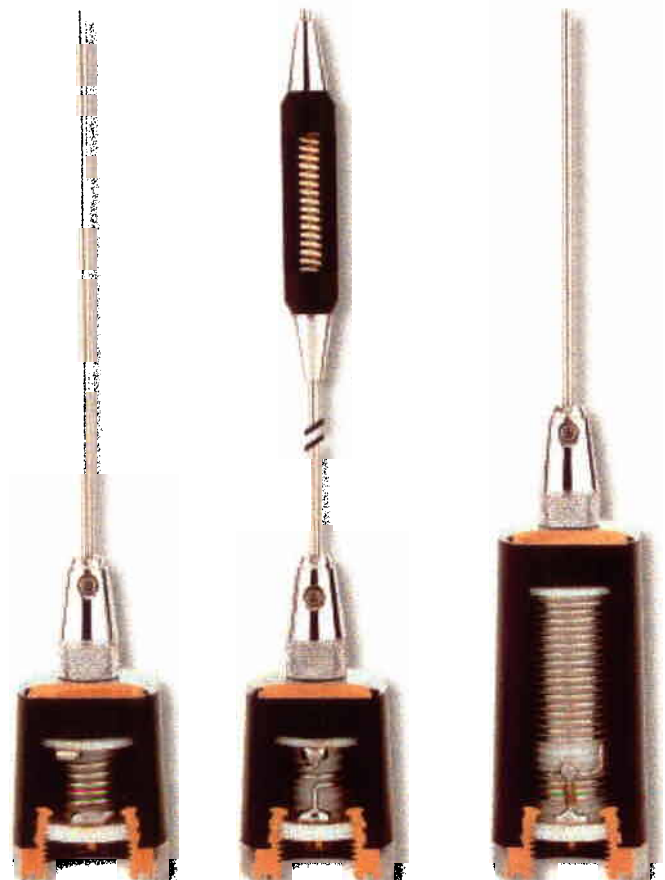
CB27

BW1443

BB1443S

BB8063

BB4505C



B1443

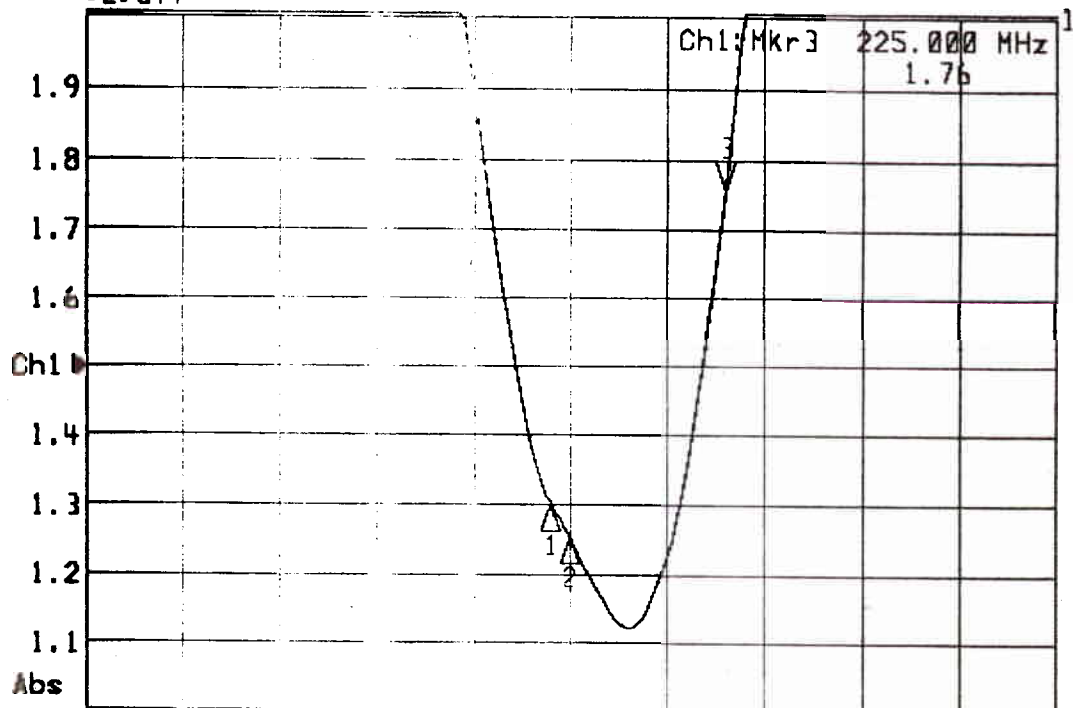
B4505C

C27

Technical Data - Product Features & Information

- **Gain:** See model.
- **Frequency Range:** See model.
- **VSWR:** <1.5:1 unless otherwise noted, <2:1 for Lowband.
- **Maximum Power:** All models - 200 watts.
- **Bandwidth:** See representative VSWR plot.
- **Impedance:** 50 ohms.
- **Tuning:** Models are shipped at the lowest frequency in the range. Custom factory tuning is available.
- **Mounting Base:** Molded high heat ABS with copper, nickel, brite or black chrome solid brass inserts.
- **Radiator:** 17-7ph tapered stainless steel whip or 17-7ph straight stainless steel collinear with a centerless ground finish or black chrome plate.
- **Coil Form:** 3 dimensional precision machined delrin.[®]
- **Phasing Coils:** Silver plated tempered brass.
- **Contacts:** Gold plated push pin.
- **Mounts to:** 3/4", 3/8", Magnetic and Mini-Trunk mounts.
- **Quality Assurance:** 100% tested on a network analyzer.

▶1: Reflection /M SWR 0.1 / Ref 1.50 C
 ▶2: Off



Center 217.000 MHz

Span 50.000 MHz

1: Mkr (MHz)			2: Mkr (MHz) dB	
1:	216.00	1.30		
2:	217.00	1.26		
3:	225.00	1.76		
BR003				
3-6-02				