



Monocones

Mast mount omni-directional monocones

VHF mid band 70-85 MHz or VHF high band 148-174 MHz



Monocones offer genuine broadband coverage and an omnidirectional radiation pattern. With integral ground plane, monocones also provide a low angle of radiation comparable with centre fed dipoles.

Mounting hardware, coaxial feeder cables, connectors and other installation accessories are all available separately.

	B54SS	B56SS
Construction	Fibreglass radome, 304 stainless steel radials and mount section	
Frequency range	70-85 MHz - VHF mid band	148-174 MHz - VHF high band
Bandwidth	Specify 7 MHz	Full frequency range stated - 26 MHz
VSWR	<1.5:1	
Tuning	Factory	
Gain	0 dBd - unity	
Maximum power	500 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omnidirectional ± 0.5 dBd	
E Plane	78°	80°
Cable	1 metre RG213 stranded core - bottom exit	
Connector	N-type female fitted to cable as standard or specify requirements	
Mount section	300mm x Dia. 38.1mm	300mm x Dia. 42mm
Height	1.5 metres	1.3 metres
Weight	5kg	
Projected area	0.093m ²	0.065m ²
Wind load at 160kph	0.111kN, 11.294kg	0.077kN, 7.867kg
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS	
Mounting position recommended	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamp/s.	
Alternate models available	B56SS-R - ruggedised VHF high band, 148-174 MHz, 500 Watts M56SS-MIL-VHF40 - Navel Spec VHF high band, 138-174 MHz	



B56SS



N-type female fitted to cable as standard or specify requirements

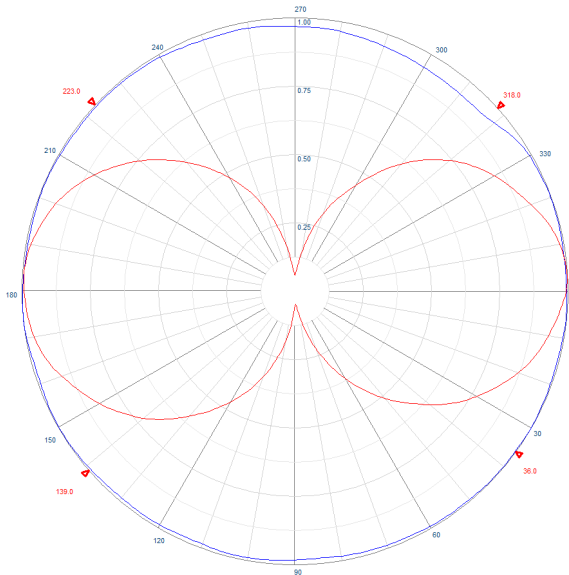


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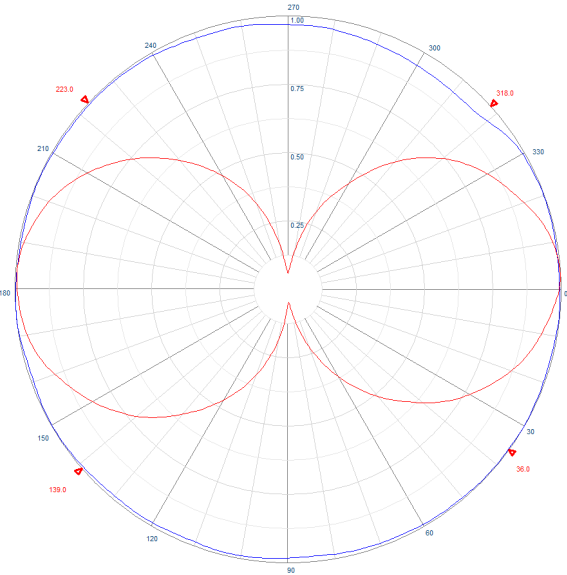
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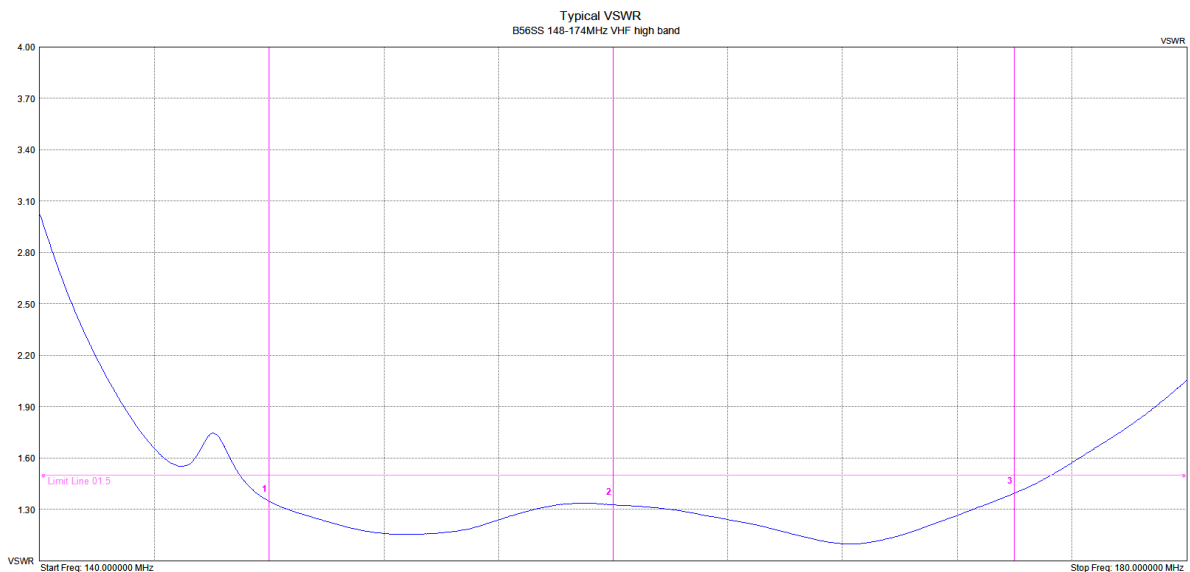
VHF mid band 70-85 MHz or VHF high band 148-174 MHz



Example radiation pattern - B54SS



Example radiation pattern - B56SS



Mix	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	148.000 MHz	1.39VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	160.000 MHz	1.39VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	174.000 MHz	1.39VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR - B56SS





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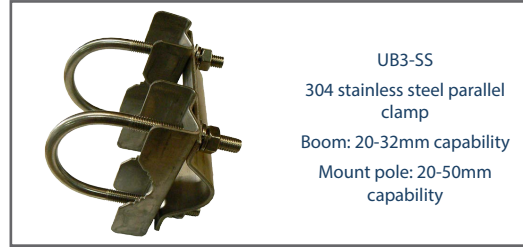
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Suitable mounting hardware



EB1-SS - requires 2
304 stainless steel parallel
clamp
Boom: 20-40mm capability
Mount pole: 25-45mm
capability



UB3-SS
304 stainless steel parallel
clamp
Boom: 20-32mm capability
Mount pole: 20-50mm
capability



RB8
Galvanised steel right-
angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm
capability



UB2-SS
304 stainless steel right-
angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm
capability



B54SS ONLY
NSM-218 - requires 2
Toughened white nylon wall
mount
Boom: 38mm capability
13mm mount hole required

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor,
low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)
P/N 7890
Available in 100m, 300m, 500m
roll or alternatively request a
custom cable assembly



N-type male crimp connector
for RU400 low loss, solid
conductor

P/N 8226

Tri-metal plated



1/2" super flexible helical
shielded, foam dielectric
coaxial cable
P/N ZCG1250SF

Available in per metre, 500m
roll or alternatively request a
custom cable assembly



N-type male clamp connector
for 1/2" super flexible, helical
shielded coaxial cable

P/N NM1250SF

Tri-metal plated



1/2" corrugated shielding,
foam dielectric coaxial cable
P/N ZCG1250

Available in per metre, 500m
roll or alternatively request a
custom cable assembly



N-type male clamp connector
for 1/2" flexible, corrugated
shielded, coaxial cable

P/N NM1250

Tri-metal plated