



Y800 Series Yagi Antenna

UHF, mobile phone or ISM band square boom Yagi antennas
Fixed frequency A, B & C 825-960 MHz

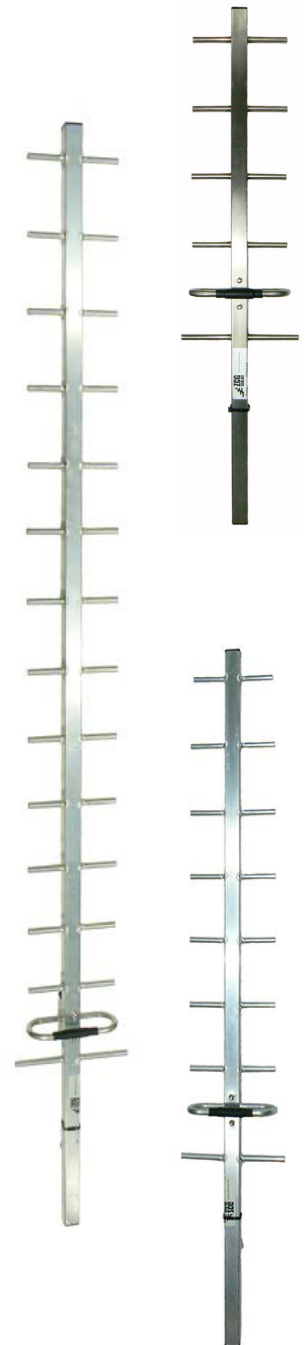


Our popular Y800 series of directional fixed position Yagi antennas are manufactured and in-stock in "fixed frequency" models A, B or C, each tuned for optimum performance across a separate segment of the Mobile Phone and ISM900 range 820-960 MHz.



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

SKU	Y806	Y809	Y815	
Fixed frequency models SKU (select letter/frequency)	SKU: Y***-A: 825-890 MHz* - all carriers lower 4G cellular network			
	SKU: Y***-B: 870-930 MHz IoT/M2M/LoRa		SKU: Y815B: 852-930 MHz IoT/LoRa	
	SKU: Y***-C: 890-960 MHz* - Lower 4G cellular network			
Construction	Fully-welded aluminium, or add -SS for 304 grade stainless steel			
Tuning	Factory			
VSWR	<1.5:1 across fixed bandwidth			
Number of elements	6	9	15	
Gain - nominal	9 dBd	11.5 dBd	14 dBd	
Polarisation	Mount horizontal or vertical as required			
Maximum power	50 Watts			
Impedance	50 Ohms			
H Plane at 3dB	51°	42°	30°	
E Plane at 3dB	46°	34°	28°	
Front-to-back ratio	17.8 dB	15 dB	15 dB	
Connector & Cable	N-type female fitted to 250mm RG59 cable tail			
Boom length at 850MHz	0.8 metres	0.97 metres	1.85 metres	
Longest element	210mm			
Weight	Aluminium	0.5kg	0.7kg	1kg
	Stainless steel	1.2kg	1.5kg	2.6kg
Projected area	0.053m ²	0.058m ²	0.080m ²	
Wind load at 160kph	0.063kN, 6.42kg	0.069kN, 7.016kg	0.095kN, 9.68kg	
Strut kit - order separate	Not required		Y51-48 or Y52-48	
Mounting hardware order separate	1 x A48 or A48-65 for aluminium models or 1 x S48 or S48-65 for stainless steel models 1 x Y51-48 strut kit recommended for Y815 series			





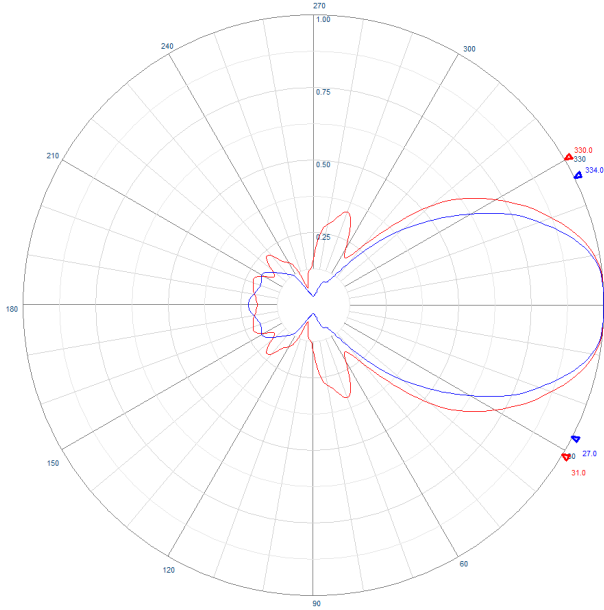
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 **In-stock
Ready to
Ship**
* Signifies build to
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H Plane

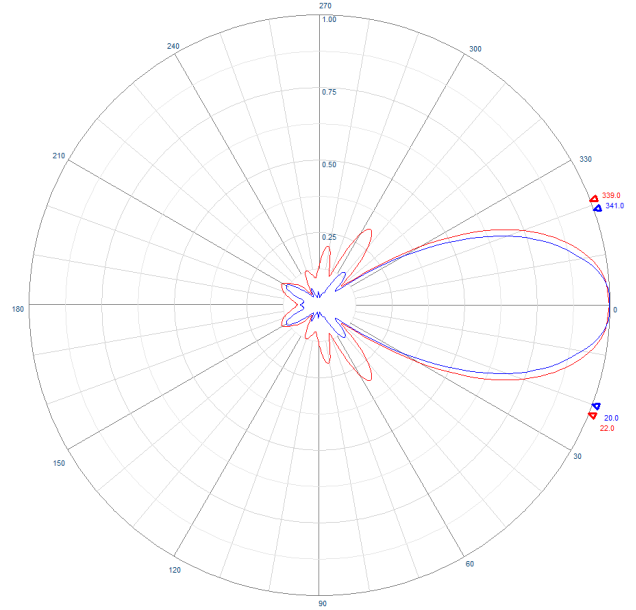
E Plane



Example Radiation Pattern -Y806

H Plane

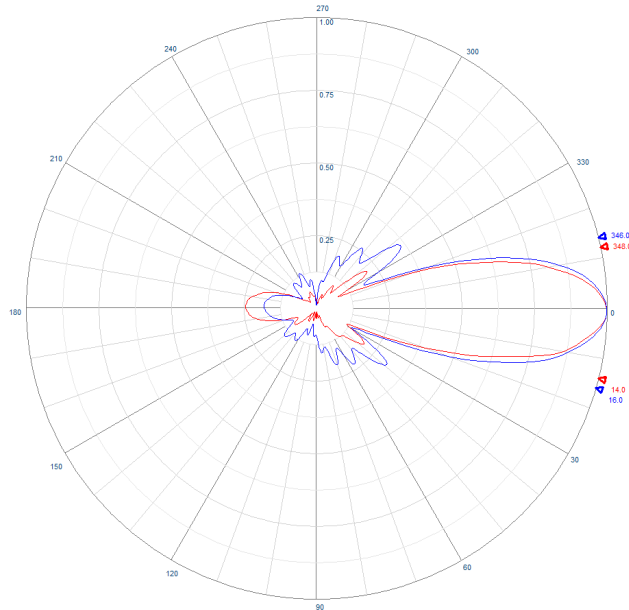
E Plane



Example Radiation Pattern -Y809

H Plane

E Plane



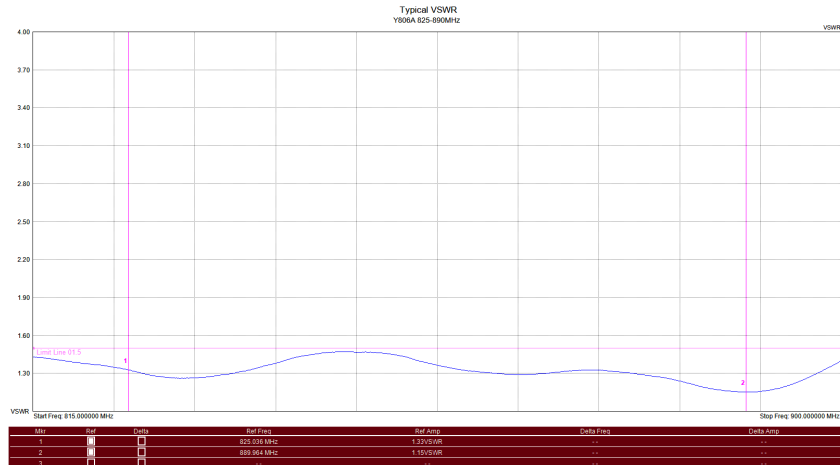
Example Radiation Pattern -Y815



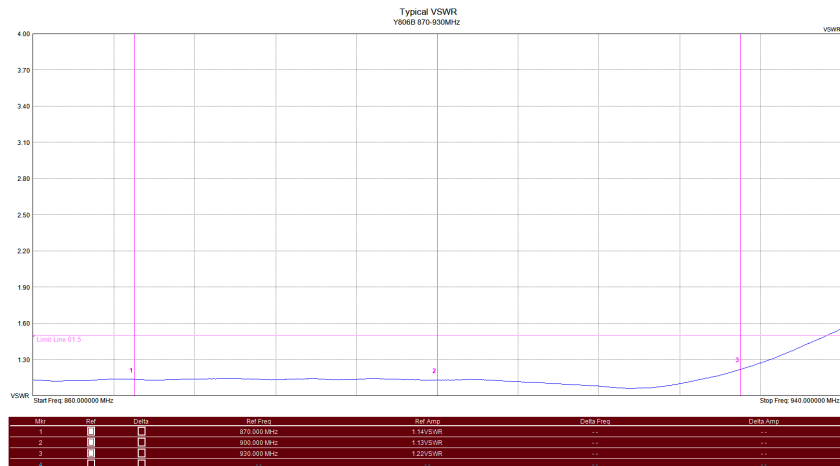
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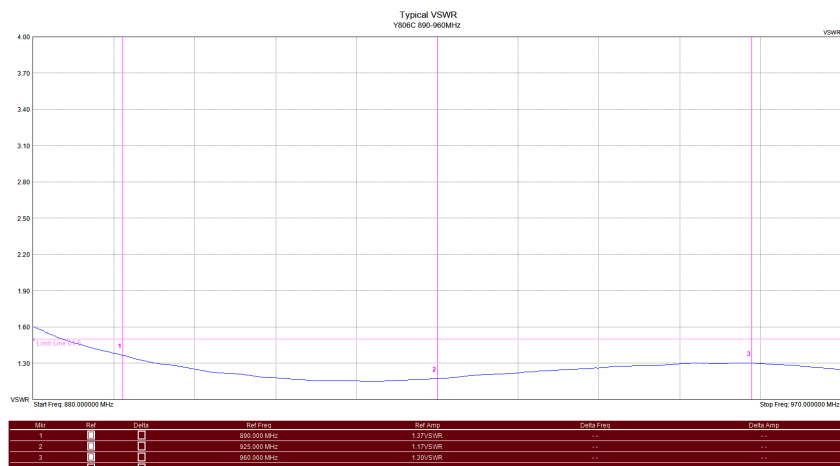
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Typical VSWR - Y806A



Typical VSWR - Y806B



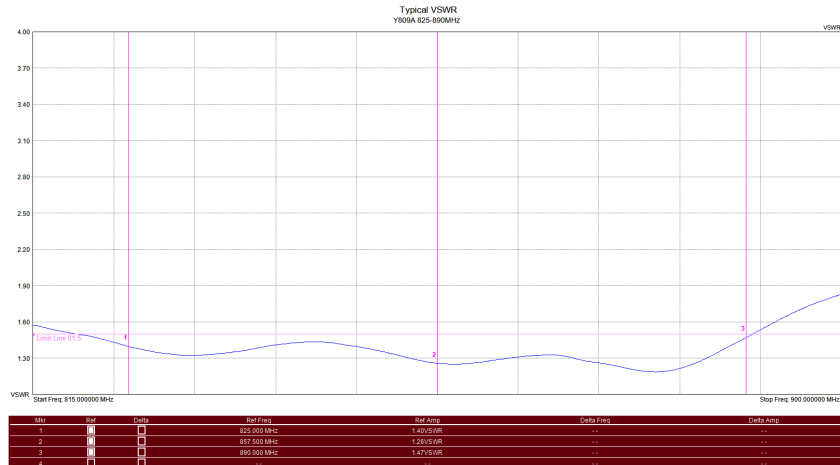
Typical VSWR - Y806C



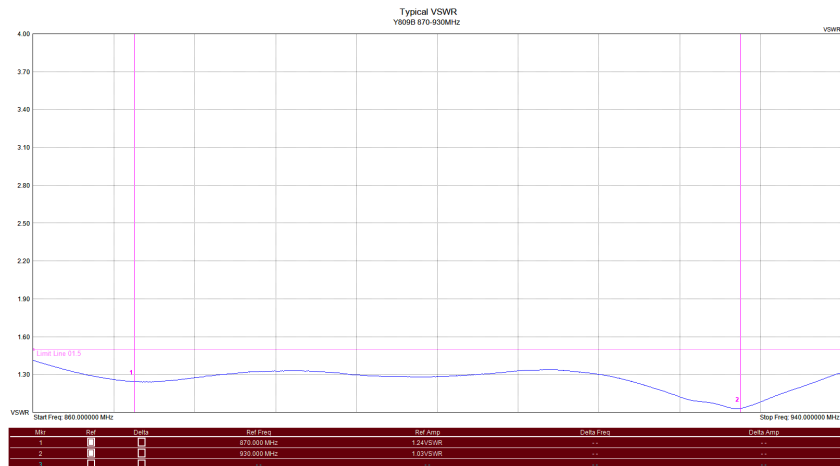
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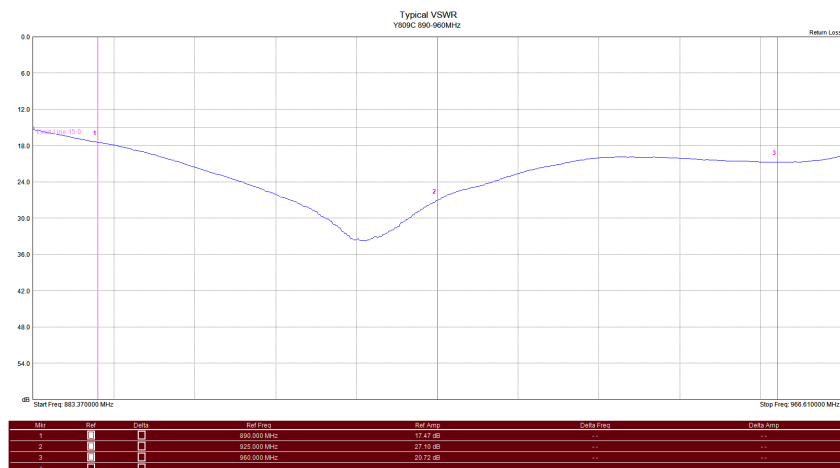
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Typical VSWR - Y809A



Typical VSWR - Y809B



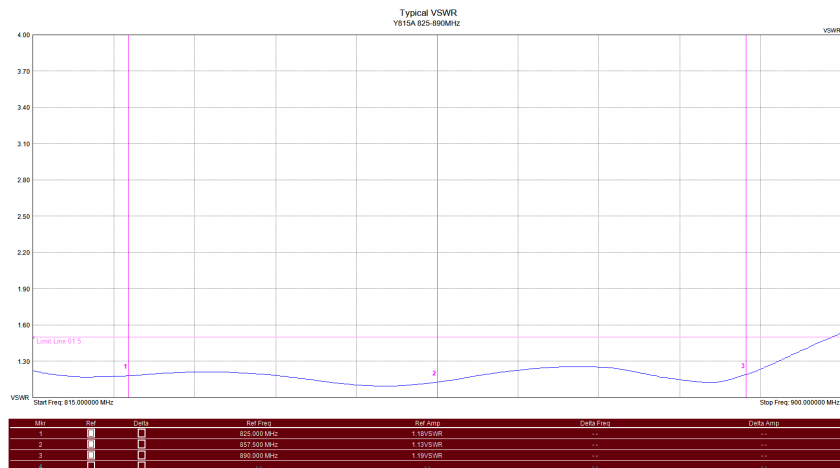
Typical VSWR - Y809C



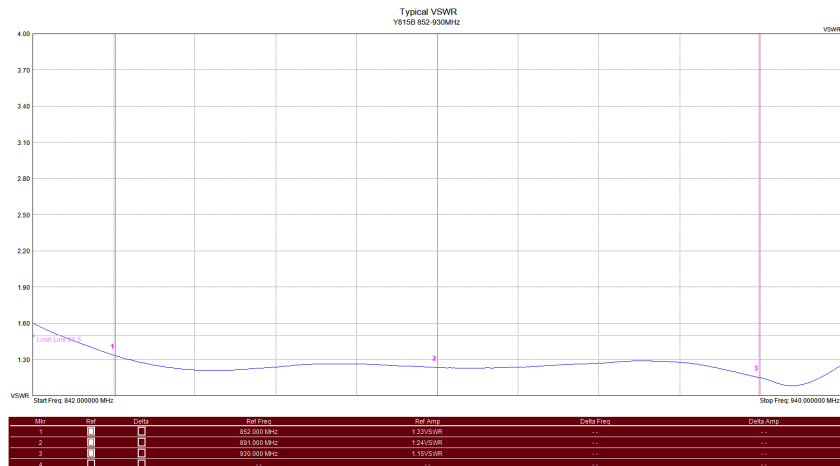
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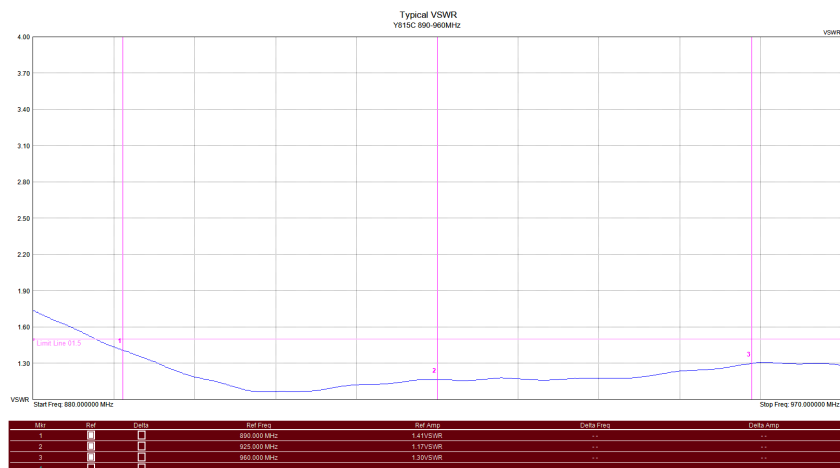
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Typical VSWR - Y815A



Typical VSWR - Y815B



Typical VSWR - Y815C



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SKU: A48
Galvanised steel
Right-angle for 25mm RHS
30-50mm mount pole



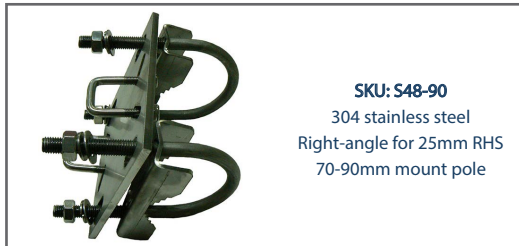
SKU: S48
304 stainless steel
Right-angle for 25mm RHS
30-50mm mount pole



SKU: A48-65
Galvanised steel
Right-angle for 25mm RHS
50-65mm mount pole



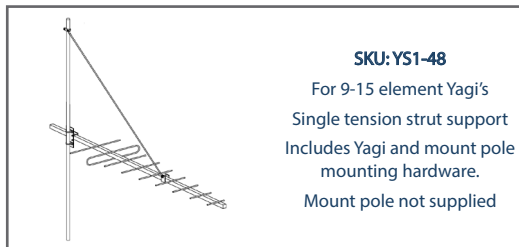
SKU: S48-76
304 stainless steel
Right-angle for 25mm RHS
60-75mm mount pole



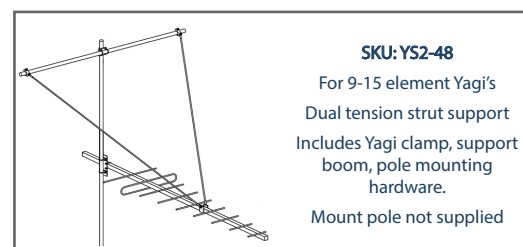
SKU: S48-90
304 stainless steel
Right-angle for 25mm RHS
70-90mm mount pole



SKU: A48-tilt
Galvanised steel right-angle for
25mm RHS
30-50mm mount pole
with 14 deg tilt allowance



SKU: YS1-48
For 9-15 element Yagi's
Single tension strut support
Includes Yagi and mount pole
mounting hardware.
Mount pole not supplied



SKU: YS2-48
For 9-15 element Yagi's
Dual tension strut support
Includes Yagi clamp, support
boom, pole mounting
hardware.
Mount pole not supplied

Suitable feeder coaxial cable and connectors



SKU: 7800
RG213 MIL-SPEC, solid PE
dielectric, stranded core coaxial
cable

Available in 100m, 300m roll or
alternatively request a custom
cable assembly



SKU: NM-7937
N-type male crimp connector
for MIL-SPEC RG213 coaxial
cable

Tri-metal plated



SKU: 7890
RU400 Solid copper conductor,
low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)

SKU: 7890-2 - ultra flexible
Available in 100m, 300m, 500m
roll or alternatively request a
custom cable assembly



SKU: NM-8226
N-type male crimp connector
for RU400 low loss, solid
conductor

Tri-metal plated