



# SMC

Communications Solutions  
www.smc-comms.com

## TWB Transportable Wide Band Antenna

The SMC TWB2530 is a completely integral HF transportable antenna system. Supplied with its own fibre glass support mast it requires no natural objects for support purposes. The complete system is packed in a roll-up kit bag for transportation, and can be erected and 'on air' in as little as 15 minutes. All components are drab olive or matt black. The system is constructed of very lightweight/high strength materials including kevlar and nylon.



Mechanical Specs	
Specs	Information
<b>Mast</b>	11 MTS epoxy bonded GRP 50mm OD with prestretched 4-way polyester guy system
<b>Packed weights and sizes</b>	200 x 30 x 70cms, 36kg (6'7" x 1' x 2'3"2", 79lb)
<b>Site requirements (inc. masts)</b>	47m x 22m max (154'x 72'max)
<b>Deployment time</b>	30 minutes max
<b>Antenna elements</b>	PVC covered kevlar braid, drab olive
<b>Loads</b>	GRP housing, fully strain relieved
<b>Balun transformer</b>	Fully encapsulated non hygroscopic with NATO style spigot

Technical Specs	
Specs	Information
<b>Frequency range</b>	2.5 to 30MHz
<b>Power ratings</b>	Receive, 400w, 1 kw
<b>VSWR</b>	2.0:1 2.5:1
<b>Impedance</b>	50ohms unbalanced
<b>Polarisation</b>	Horizontal
<b>Gain</b>	Up to 3dbi
<b>Input connector</b>	N or UHF
<b>Feeder cable</b>	20m URM67



TAS40/TAS100 Balanced Transformer  
(Model depending on requirements)

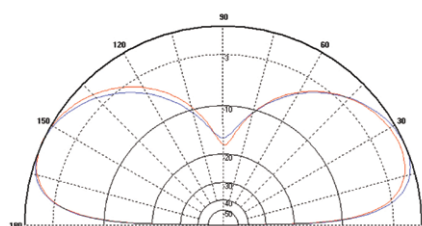


### Including All Components

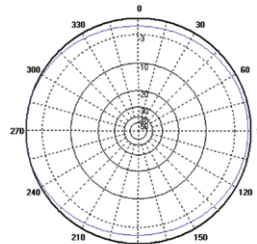
Vinyl/Canvas kit bag.  
Complete system including glass-fibre mast and all necessary fittings

### Additional Information

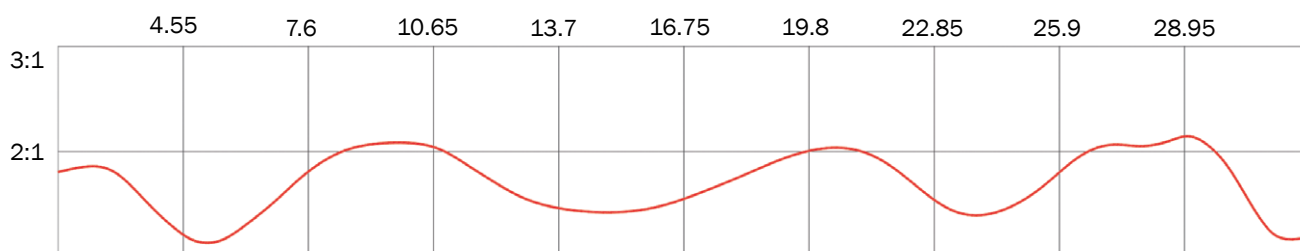
Earthing Screen for TWB Series Dipole  
Part # TWB2530/ES  
NATO codified versions available.



**2.5MHz** Vertical Pattern  
Blue 0° Azimuth  
Red 90° Azimuth



Horizontal Pattern  
20° Above Zenith



Start 1.5MHz

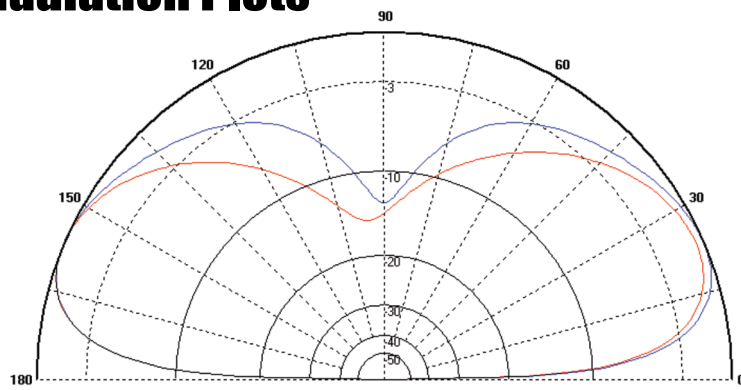
Stop 32.0MHz

# SMC



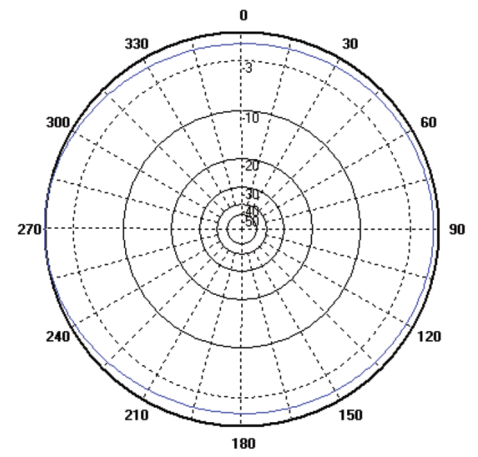
**South Midlands Communications Ltd.** SM House, School Close,  
Chandlers Ford, Industrial Estate, Eastleigh, Hampshire, SO53 4BY ENGLAND  
Tel: +44 (0)23 8024 6200 - Fax: +44 (0)23 8024 6206 - Email: sales@smc-comms.com

# Radiation Plots

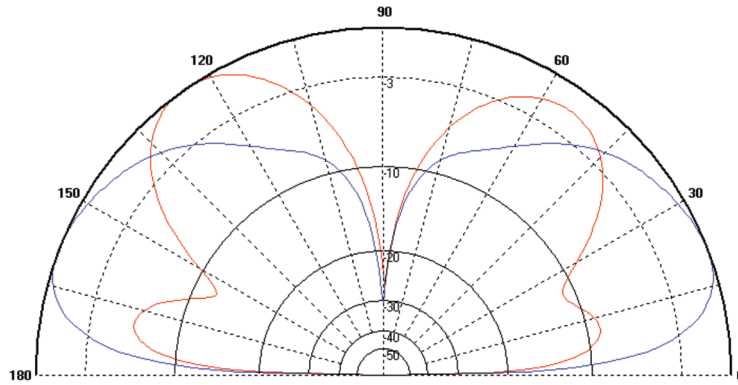


Vertical Pattern  
Blue 0° Azimuth  
Red 90° Azimuth

**5.0MHz**

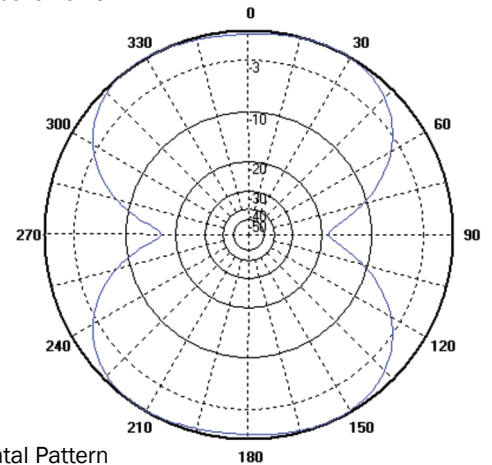


Horizontal Pattern  
20° Above Zenith

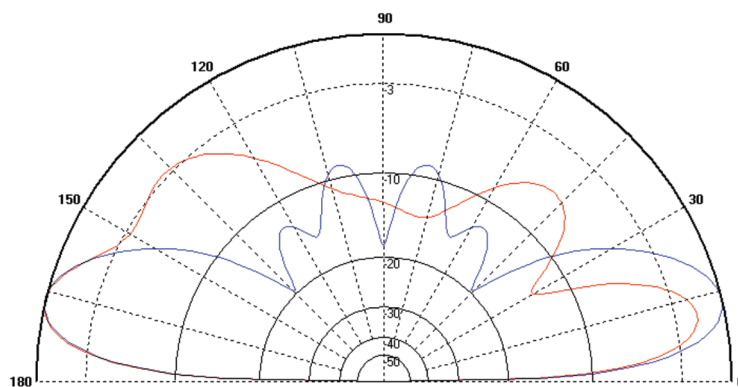


Vertical Pattern  
Blue 0° Azimuth  
Red 90° Azimuth

**10.0MHz**

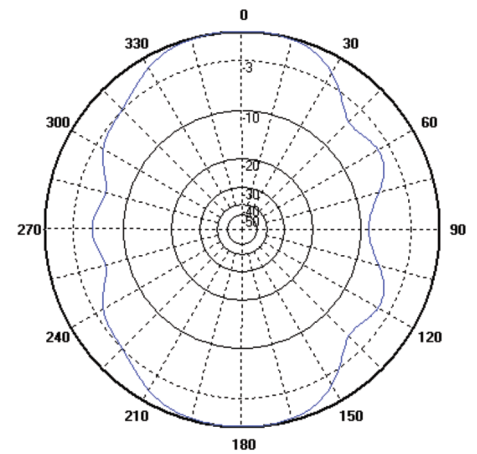


Horizontal Pattern  
20° Above Zenith

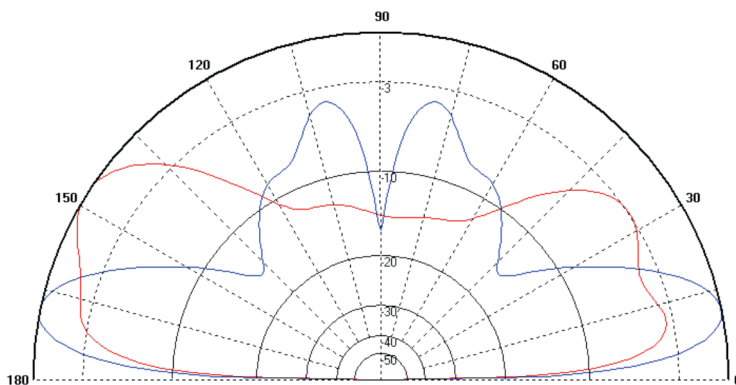


Vertical Pattern  
Blue 0° Azimuth  
Red 90° Azimuth

**15.0MHz**

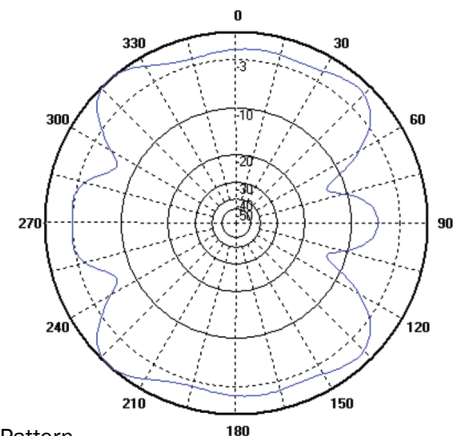


Horizontal Pattern  
20° Above Zenith



Vertical Pattern  
Blue 0° Azimuth  
Red 90° Azimuth

**20.0MHz**



Horizontal Pattern  
20° Above Zenith