

The S.C3B series of glassfibre collinears are designed for professional base station and telemetry applications. The antennas have been designed with an integral dual purpose mounting bracket, cast in aluminium. The stainless steel fittings enable the antennas to be fixed to the top of a vertical pole up to 60mm diameter. The all coaxial fed centre fed dipoles enable beam tilt to be readily achieved, if specifically required. All S.C3B series antennas are d.c. grounded. A VSWR of 1.5:1 is achieved over a bandwidth of  $\pm 4\%$  of centre frequency.

The S.C3B is approved for use on MPT1411 systems.



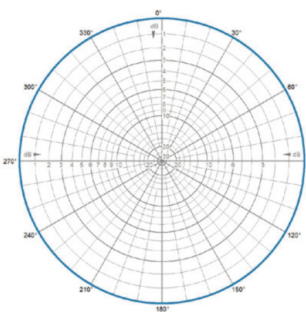
<b>Frequency range</b>	Manufactured between 118 - 960 MHz
<b>Input impedance</b>	50Ω
<b>Typical Bandwidth</b>	$\pm 4\%$ of centre frequency
<b>VSWR</b>	<1.5:1
<b>H Plane ripple</b>	< $\pm 0.5$ dB
<b>Maximum input power</b>	<b>VHF/UHF</b> 150 Watts <b>SHF</b> 100 W
<b>Polarisation</b>	Vertical
<b>Gain</b>	3 dBd
<b>3 dB Beamwidth</b>	E Plane 33°
<b>Standard Connection</b>	0.5m Length of RG213 c/w 'N' type socket.
<b>Dipoles</b>	11mm dia brass tube
<b>Dipole feeds</b>	PTFE dielectric coaxial cable
<b>Shroud</b>	Parallel grey glassfibre tube
	<b>VHF</b> 40mm dia. <b>UHF/SHF</b> 26mm dia.
<b>Lightning protection</b>	Direct Grounded
<b>Mounting bracket</b>	Integral diecast aluminium alloy grade LM6
<b>Bracket finish</b>	Black anodise
<b>Mast fixings</b>	Stainless steel M8 V bolts grade A2-70
<b>Typical weight</b>	<b>VHF</b> 1.5kg <b>UHF</b> 0.8kg <b>SHF</b> 0.6kg
<b>Typical length</b>	<b>VHF</b> 3.1m <b>UHF</b> 1.5m <b>SHF</b> 0.8m
<b>Typical wind loading @ 45m/s</b>	<b>VHF</b> 185N <b>UHF</b> 81N <b>SHF</b> 46N

### Free Space Radiation Patterns

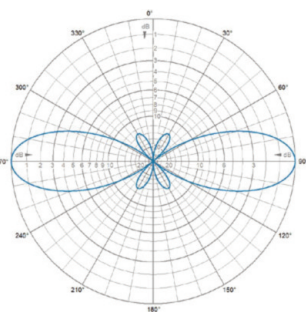
### Mounting Accessories

### Ordering Codes

#### H-Plane



#### E-Plane



**CSB**  
Welded  
Aluminium  
Standoff Frame

Stock code	Frequency
<b>S.C3B-150</b>	143-160MHz
<b>S.C3B-155</b>	145-165MHz
<b>S.C3B-160</b>	150-170MHz
<b>S.C3B-165</b>	155-175MHz
<b>S.C3B-395</b>	380-410MHz
<b>S.C3B-420</b>	410-430MHz
<b>S.C3B-435</b>	420-450MHz
<b>S.C3B-460</b>	450-470MHz
<b>S.C3B-869</b>	860-890MHz

Issue 2. E&OE  This product is RoHS compliant