



SGDB-TPM-BE series

Mobile phone/wireless data improvement

All networks dualband 4G 825-960 MHz & 1710-2190 MHz



At some remote locations or inside a building, mobile phone and wireless data reception can often be poor due to internal construction such as iron rebar/ metallic tinted glass. The SGDB-TPM-BE is an ideal external adaptable antenna for mounting externally at your home or office to improve reception/ data transfer.

Please note: the SGDB-TPM-BE series will not transmit/receive signal where no cellular infrastructure is present, please check network coverage.

Mounting hardware, adaptors, bird-proofing and other installation accessories are all available separately.

Construction	Black fibreglass radome, clear anodised aluminium mount ferrule and bottom exit external cable and termination
Frequency range	825-960 MHz & 1710-2190 MHz - all networks dualband 4G
Bandwidth	Full frequency ranges stated
VSWR	Average: <1.6:1, Maximum <3:1 VSWR
Tuning	Factory
Gain	6.2 dBi at 825-960 MHz and 3 dBi at 1710-2190 MHz
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
E Plane	32°
Cable	10 metres RG58 low loss, solid core - bottom exit from ferrule
Connector	SMA male fitted to cable as standard - or specify
Height	800mm
Weight	1.0kg
Mounting hardware order separate	See following pages for suitable mount hardware or any minimum 13mm hole
Mounting position recommended	As high on your structure/tower or building as possible, using the appropriate mounting hardware.
Installation tools required	19mm or 3/4" spanner for securing nut and Waterproofing amalgamation tape SKU: A-8574 and PVC tape SKU: A-8651-0 for all terminations.



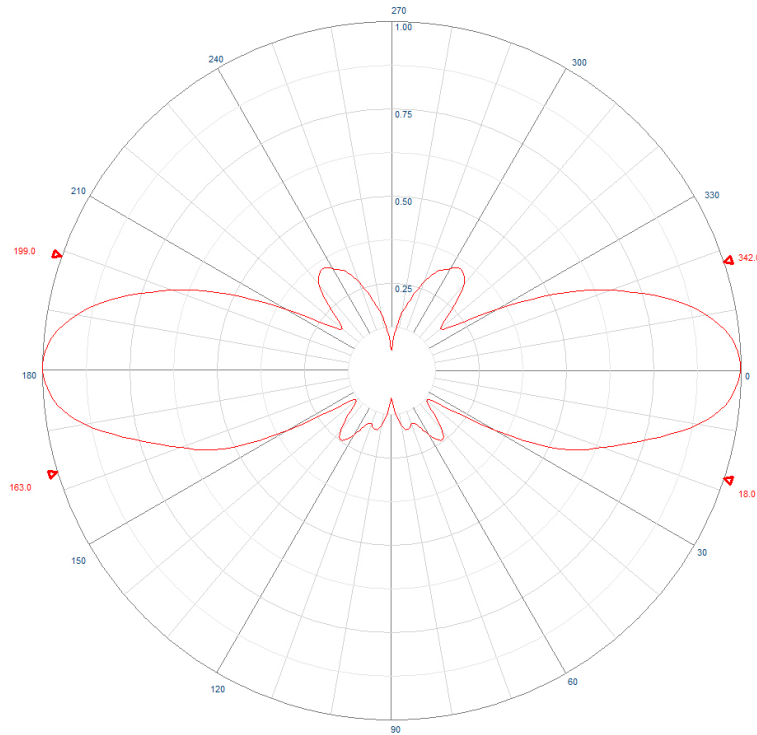
Cable bottom exits from ferrule.



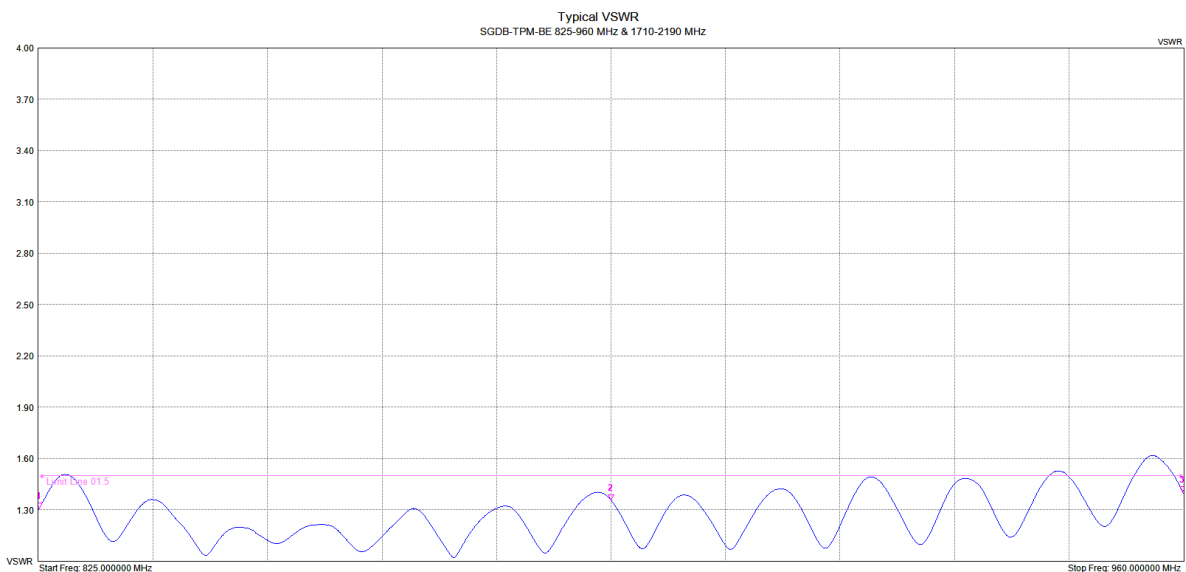
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Example radiation pattern



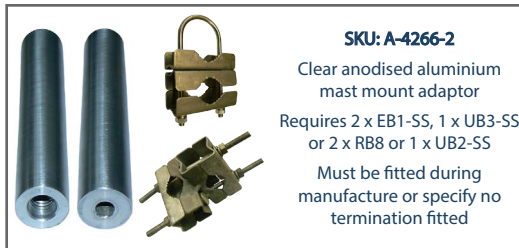
Mir	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	825.091 MHz	1.31 VSWR	--	--
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	892.531 MHz	1.38 VSWR	--	--
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	959.939 MHz	1.40 VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR at 820-960 MHz

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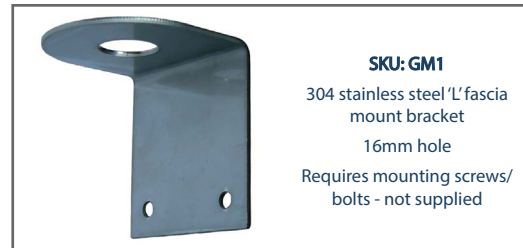
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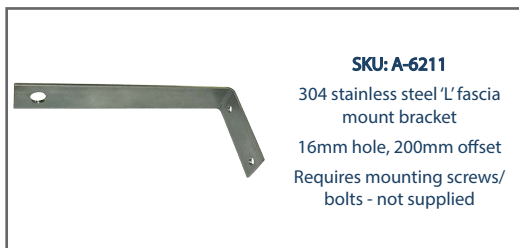
SKU: A-4266-2

Clear anodised aluminium
mast mount adaptor
Requires 2 x EB1-SS, 1 x UB3-SS
or 2 x RB8 or 1 x UB2-SS
Must be fitted during
manufacture or specify no
termination fitted



SKU: GM1

304 stainless steel 'L' fascia
mount bracket
16mm hole
Requires mounting screws/
bolts - not supplied



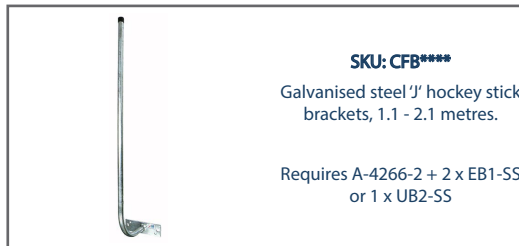
SKU: A-6211

304 stainless steel 'L' fascia
mount bracket
16mm hole, 200mm offset
Requires mounting screws/
bolts - not supplied



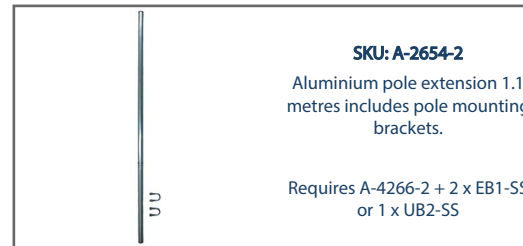
SKU: MGB

Powdercoated black internal
magnet mount base
16mm hole
105mm diameter
includes scratch reduction pad
on base



SKU: CFB****

Galvanised steel 'J' hockey stick
brackets, 1.1 - 2.1 metres.
Requires A-4266-2 + 2 x EB1-SS
or 1 x UB2-SS



SKU: A-2654-2

Aluminium pole extension 1.1
metres includes pole mounting
brackets.
Requires A-4266-2 + 2 x EB1-SS
or 1 x UB2-SS



Alternate Spring base

SKU: A-1269-12

'Barrel' stainless steel spring
base with threaded stud and
split nut
Requires 19mm spanner
Must be fitted during
manufacture



Alternate Spring base

SKU: A-1269-14

'Barrel' stainless steel spring
base with 50mm base
extension.
Requires 19mm spanner
Must be fitted during
manufacture

Typical alternate connectors



SKU: 7963-7

SMA male termination
Suits mobile/telemetry devices.

Also available in right-angle
configuration, alternate gender
or reverse polarity



SKU: 7933-2

N-type male termination
Suits mobile/telemetry devices

Also available in right-angle
configuration or alternate
gender