

SG3500

Omni-directional mast/bracket mount collinear IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



The SG3500 omnidirectional C-band 5G wireless data collinear can be used as a 5G mobile phone improvement in partnership with a CEL-FI GO stationary or CEL-FI-GO mobile unit or for wireless data transfer applications.

Mounting hardware, adaptors, coaxial cable and installation accessories are all available separately.

Construction	White fibreglass radome, internal PCB, aluminium mount ferrule and side exit cable assembly
Frequency range	3.4-3.6 GHz - N78, C-band 5G
Bandwidth	Full frequency range stated - 200 MHz
VSWR	<1.8:1
Tuning	Factory
Gain	6.0 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	21°
Connector	SMA male fitted as standard, or specify requirements
Cable	500mm RU240-UF side exit from ferrule or specify requirements
Height	340mm
Weight	179grams
Projected area	0.006m ²
Wind load at 160kph	0.766kg, 0.008kN
Temperature range	-10°C - +60°C
Mounting hardware order separate	Bracket: GM1, GM6, A-6211, A-4115 or A-4115-2 Bracket mount: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Magnetic base: MGB Alternate spring base: A-1269, A-1269-14 or A-1270
Mounting position recommended	Mount as high on your building or tower as possible using a minimum 12.7mm hole or appropriate bracket
Installation tools required	19mm or 3/8" spanner for securing nut



SMA male fitted as standard or specify requirements



1/2"-12BSW threaded base with nut+washer, requires 12.7mm hole



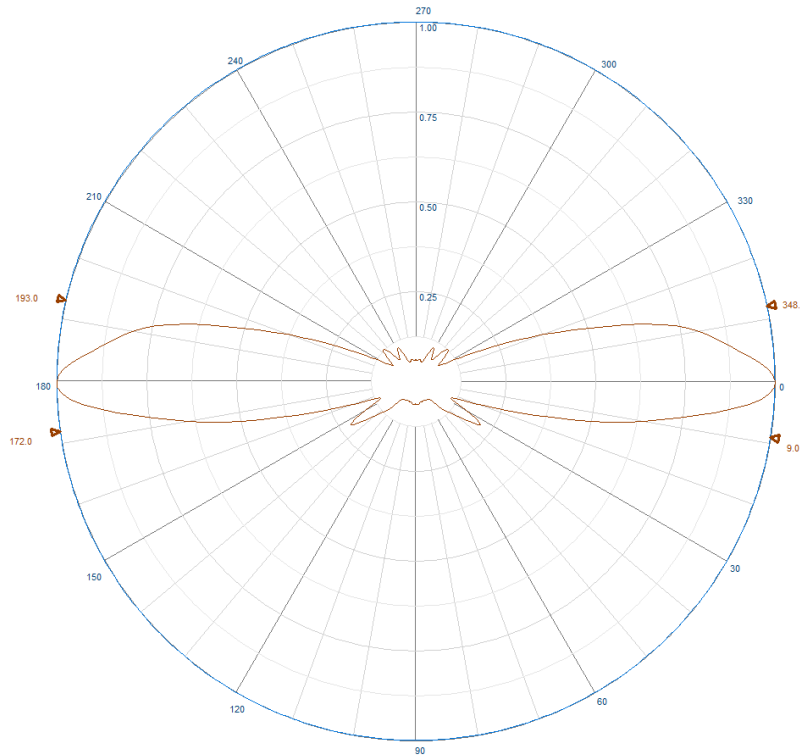
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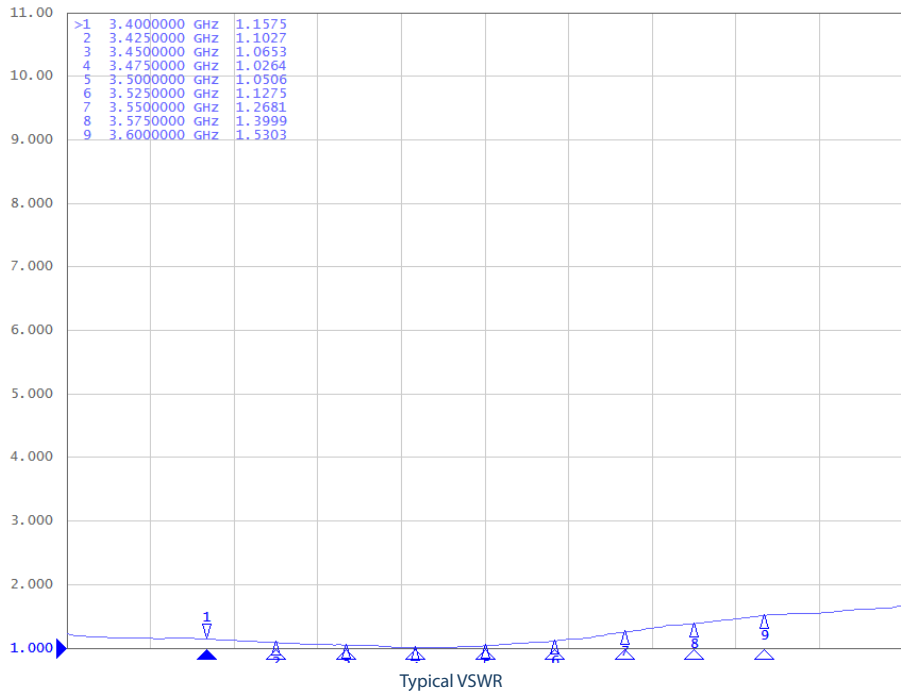
Improved Product

Australian
manufactured
in
East Gippsland



Example polar radiation pattern

▶ S11 SWR 1.000 / Ref 1.000 [F1 M]



Typical VSWR



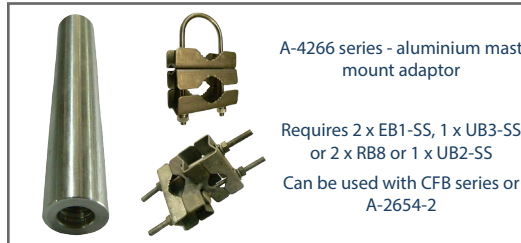
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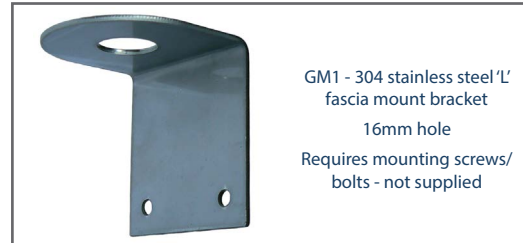
Australian
manufactured
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East Gippsland

Build
To
Order



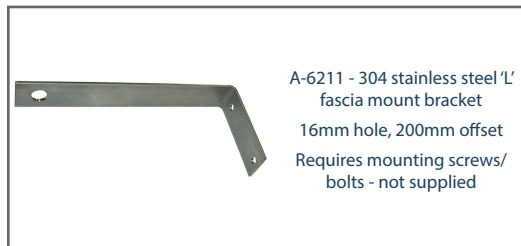
A-4266 series - aluminium mast mount adaptor

Requires 2 x EB1-SS, 1 x UB3-SS or 2 x RB8 or 1 x UB2-SS
Can be used with CFB series or A-2654-2



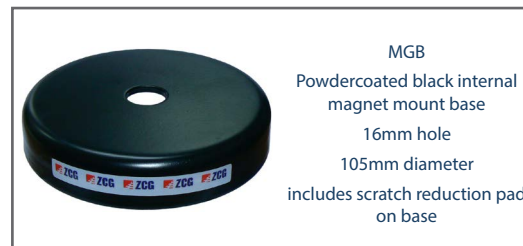
GM1 - 304 stainless steel 'L' fascia mount bracket

16mm hole
Requires mounting screws/bolts - not supplied



A-6211 - 304 stainless steel 'L' fascia mount bracket

16mm hole, 200mm offset
Requires mounting screws/bolts - not supplied



MGB

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



A-2845

Powdercoated black tri-magnetic mount base
13mm hole
Santoprene coated magnets for scratch reduction



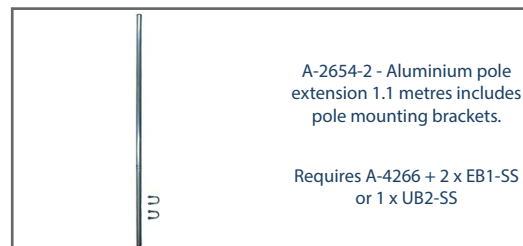
CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



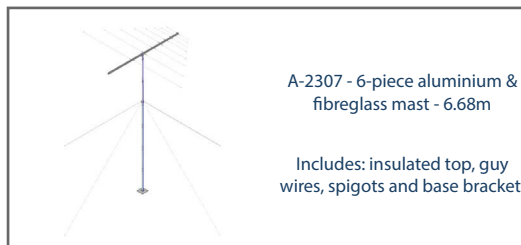
SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



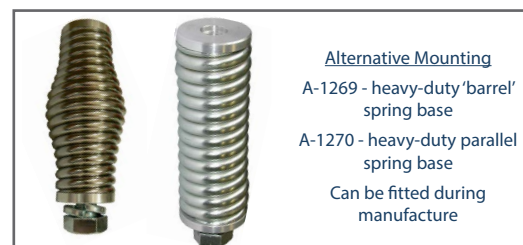
A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



A-2307 - 6-piece aluminium & fibreglass mast - 6.68m

Includes: insulated top, guy wires, spigots and base bracket.



Alternative Mounting

A-1269 - heavy-duty 'barrel' spring base

A-1270 - heavy-duty parallel spring base

Can be fitted during manufacture