



CP2400-15

End fire helical right-hand circular collinear WiFi/WLAN & ISM 2.4-2.5 GHz



The CP2400-15 is a directional right-hand circular polarised, end fired helical collinear. A helically wound right-hand circular polarised antenna will reduce unwanted signal interference and reflections. The end fired design is particularly well suited for point-to-point data communications such as WiFi/WLAN, wireless broadband or data transfer applications

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



Construction	White fibreglass radome, stainless steel mount section and external termination
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 100 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	17.1 dBi
Polarisation	Right-hand circular (RHCP)
Circularity	<2 dB
Impedance - nominal	50 Ohms
Maximum power	50 Watts
H Plane	17°
E Plane	19°
Front-to-back ratio	15dB
DC grounding	Yes
Connector	N-type female in rear of mount section - fitted as standard
Length	1.12 metres
Weight	1.5kg
Mount section	220mm x 50mm ϕ - 304 stainless steel
Mounting requirements	Mount the antenna in a horizontal configuration must like a Yagi
Mounting hardware order separate	Parallel: 1 x UB3-SS or 2 x EB1-SS Right-angle: 1 x UB2-SS or 2 x RB8 Side/Wall mounting: 1 x NSM-223

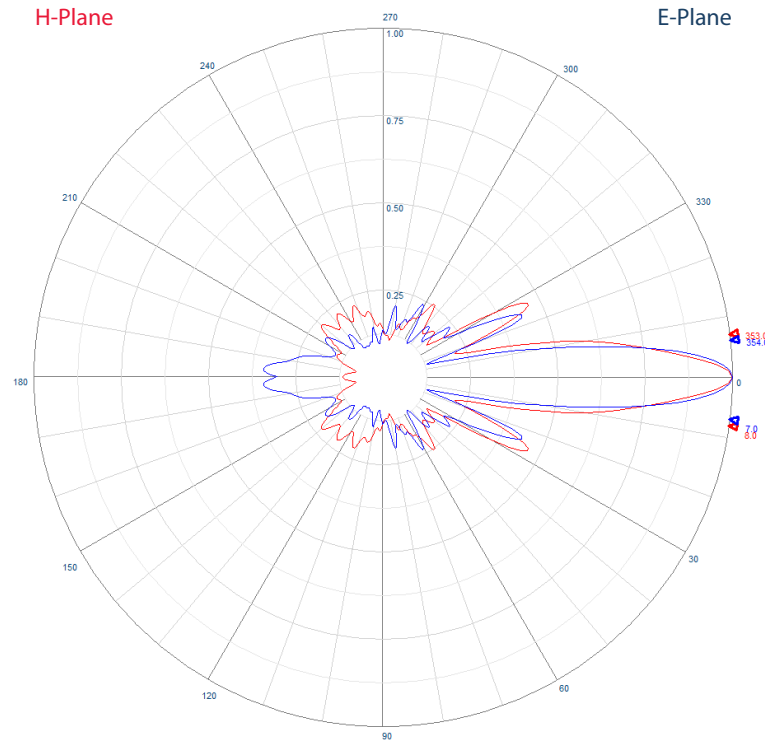


N-type female fitted to rear of antenna

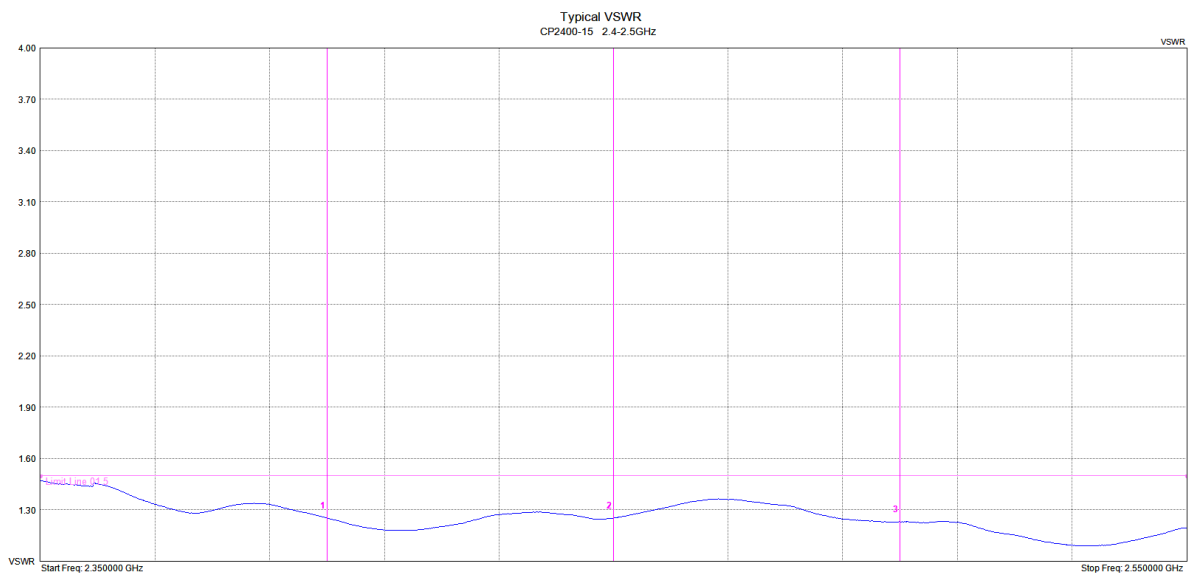


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Example radiation pattern



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	2.400 GHz	1.25VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	2.450 GHz	1.25VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	2.500 GHz	1.25VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR




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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



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



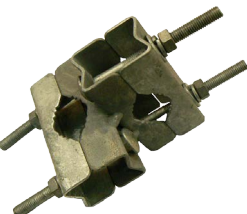
SFB900 - Galvanised steel straight extension brackets - 900mm or specify length requirements

Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting



EB1-SS - requires 2 304 stainless steel parallel clamp

Boom: 20-40mm capability
Mount pole: 25-45mm capability



RB8 - requires 2 Galvanised steel right-angle clamp

Boom: 20-40mm capability
Mount pole: 20-40mm capability



UB2-SS 304 stainless steel steel right-angle clamp

Boom: 20-50mm capability
Mount pole: 20-50mm capability



NSM-223 - requires 2 Toughened white nylon side/wall mount clamp

Boom: 50mm capability
Mount requirements: 16mm hole

Suitable coaxial feeder cables



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

P/N 7890

Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



1/2" corrugated shielding, foam dielectric coaxial cable
P/N ZCG1250

Available in per metre, 500m roll or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable

P/N NM1250

Tri-metal plated