



FMVD-MC

Omni-directional Vertical FM radio dipole

FM Radio Broadcast 87.5-108MHz



The FMVD-MC series are ground independent vertical dipoles specifically designed and manufactured for low power FM radio transmit and receive.

Popular with low powered community/independent radio stations or installed as a backup transmit antenna in case of faults or when upgrade or maintenance is required.

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

Construction	White fibreglass radome, anodised aluminium mount section, aluminium cap and external termination
Frequency range	FM Radio 87.5-108MHz
Bandwidth	Specify any 1MHz when ordering
Tuning	Factory
VSWR	<1.2:1 across specified bandwidth
Gain	0 dBd
Maximum power	25 Watts
Impedance	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional, ± 0.5 dBd
Coaxial cable	500mm RG58 C/U Huber & Suhner - bottom exit from mount section
Connector	N-type female fitted to cable tail - or specify requirements
Height at 88MHz	2.8 metres, higher frequencies radome reduces slightly
Weight	1.0kg
Projected area	0.048m ²
Wind load at 160kph	5.8kg, 0.06kN
Mount section	600mm x 32mm - anodised aluminium
Mounting hardware order separate	Mast mount: 2 x EB1-SS or 1 x UB3-SS Wall/side mount: 2 x NSM-CL3642
Warranty	2 Years



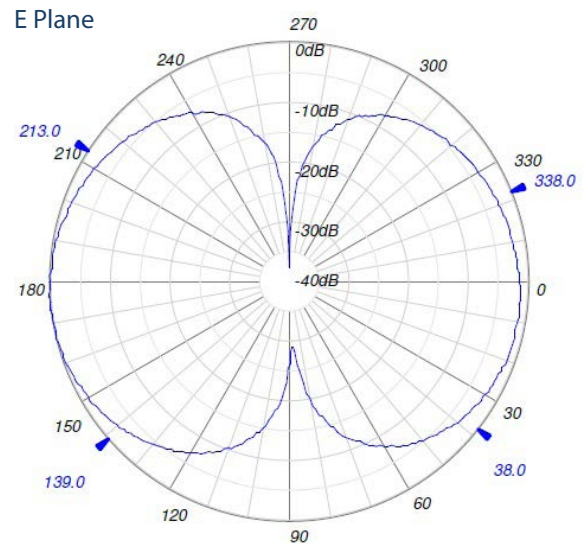
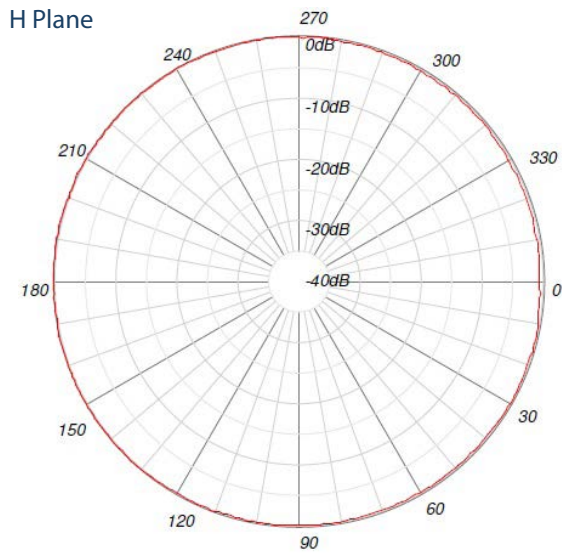
N-type female fitted to cable as standard



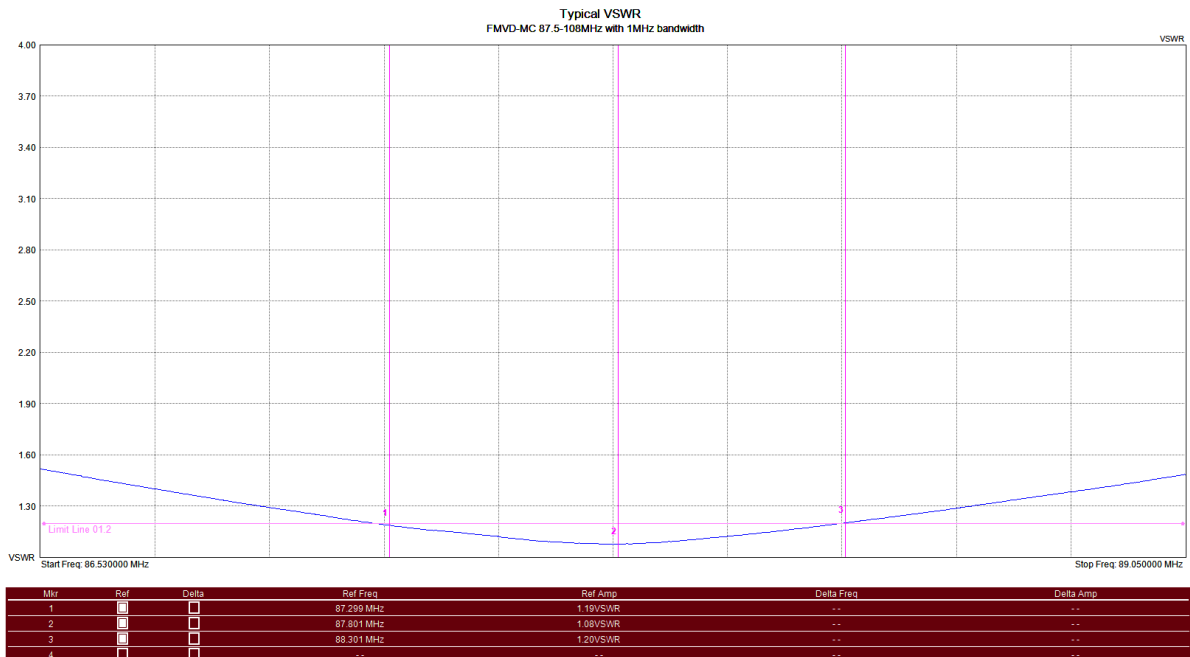
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Example polar radiation pattern



Example VSWR at 1MHz bandwidth



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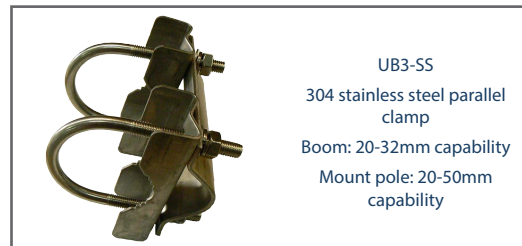
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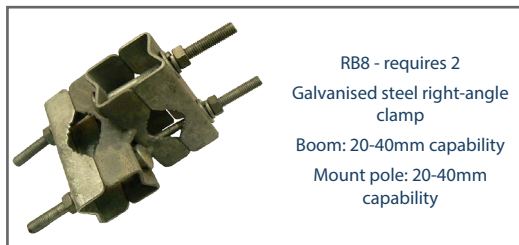
Suitable mounting hardware



EB1-SS - requires 2
304 stainless steel parallel
clamp
Boom: 20-40mm capability
Mount pole: 25-45mm
capability



UB3-SS
304 stainless steel parallel
clamp
Boom: 20-32mm capability
Mount pole: 20-50mm
capability



RB8 - requires 2
Galvanised steel right-angle
clamp
Boom: 20-40mm capability
Mount pole: 20-40mm
capability



UB2-SS
304 stainless steel right-
angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm
capability



NSM-CL3642 - requires 2
Toughened white nylon side/
wall mount clamp
Boom: 32mm capability
Mount requirements: 16mm
hole

Suitable feeder coaxial cable and connectors



1/2" super flexible helical
shielded, foam dielectric
coaxial cable
P/N ZCG1250SF

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



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

P/N NM1250SF

Tri-metal plated



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

(also available in super flexible)
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



7/8" corrugated shielding,
foam dielectric coaxial cable
P/N ZCG7850

also available in Air-dielectric
Available in per metre, 500m
roll or alternatively request a
custom cable assembly



N-type male clamp connector
for 7/8" flexible, corrugated
shielded, coaxial cable

P/N NM7850

Tri-metal plated