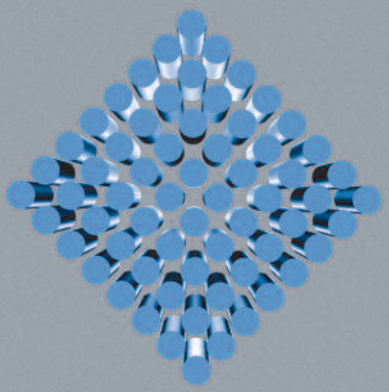
THE FUTURE...
ENTERPRISE IN ELECTROMAGNETICS



Original Perspectives Limited

ORCHARD BUSINESS CENTRE
STOKE ORCHARD
CHELTENHAM
GLOUCESTERSHIRE
GL52 7RZ
ENGLAND

T: +44 (0)1242 678 821
M: +44 (0)7990 524 723

info@originalperspectives.com
www.originalperspectives.com

Original Perspectives Limited

is an independent research, design and development group with specific skills in electromagnetics research, development, modelling and consultancy; and the design and development of antennas.

Original Perspectives can supply a range of antennas to suit requirements, including higher gain antennas, lower profile antennas and antennas with a range of polarisations. Please contact us to discuss your requirements.

Data Sheet

Type OPL/LPA Series - The Original Perspectives' Low Profile Antenna Series can be customised for user requirements and further enquiries about variants are welcome.

LPA

Original Perspective's range of low profile antennas are particularly suited for integration into structures, OPL can advise on how to integrate for a specific application, such that the antenna is effectively invisible, leaving no outward signs of the antenna. **LPA** is a vertically polarised omni-directional radiator with a pattern similar to a quarter-wave monopole which has approximately' 5dbi gain in the ideal azimuth plane. A comparison of the antenna's performance against a quarter-wave is shown in figure 1.

Using an embedded structure ensures that air-streams can remain undisturbed and unaffected by the integrated antenna, unlike antennas that protrude above a surface. This is very useful in applications such as Formula 1 motor racing. It is also ideally suited for low visibilty covert applications.

The **LPA** inherent design can be made to operate across a range of frequencies, (size depends on chosen frequency of operation).

Some customisation of this antenna can be carried out to suit a variety of applications and diverse operational needs. Contact Original Perspectives for further details and to discuss your individual requirements.

Low Profile Antenna Pattern

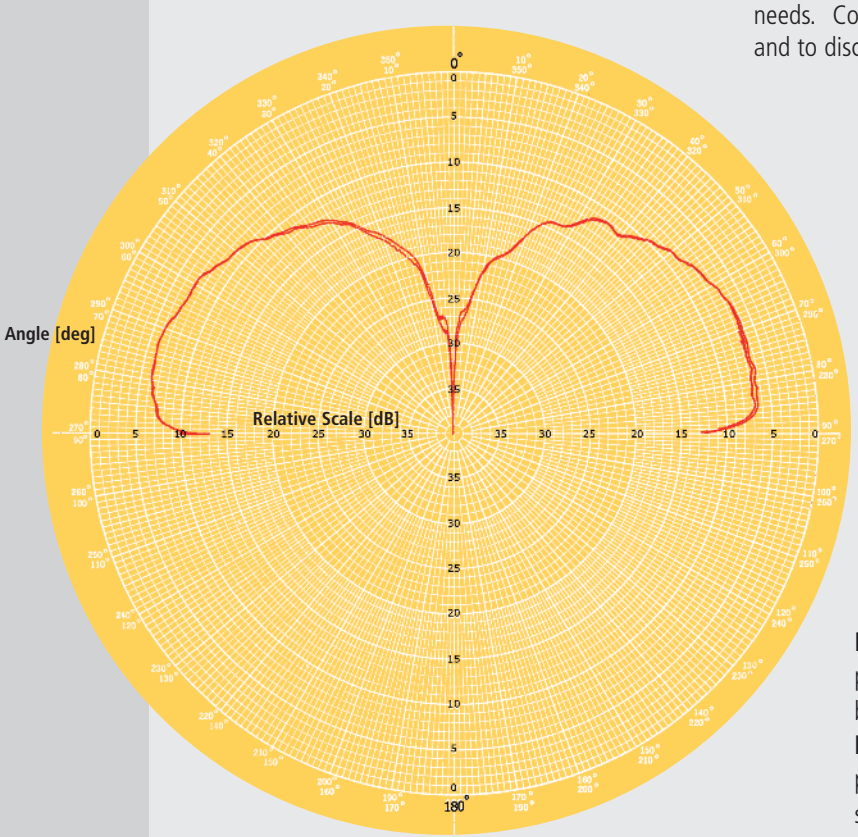


Figure 1 shows a typical performance comparison between a monopole and the **LPA** showing virtual identical patterns (noting that the dip shown at zero degrees azimuth is identical in both antennas, i.e. a facet of the measurement system not the antennas)