

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 BBD 0114-1 - The OPL broadband antennas can be customised for user requirements and further enquiries about variants are welcomed, the BBD 0114 is typical of the achievable bandwidths

Characteristic Performance

Original Perspectives' Broadband antennas Today's communication requirements are cover a very wide bandwidth. BBD 0114-1 is a increasingly stringent, frequently demanding mast mountable, omni-directional (in the maximum bandwidth and optimum use of the horizontal plane) antenna which operates from frequency spectrum. The BBD 0114 is typical 100MHz to over 13GHz. Characteristics of Original Perspectives' multi- octave antenna measured in conjunction with key Customers coverage and is thus ideal for extremely wide extremely impressive VSWR measurement, typically better than 2:1 over the used to replace a number of different antennas full range. The measured omni-directional gain pattern compares favourably with narrower band where the site of the antenna can have a antennas (c 2dbi gain over their operating drastic effect on antenna performance. Thus bands) and exceeds their performance by the fewer antennas needed to cover the continuing to operate well beyond the competitor required band the less the mutual interference products limited bandwidth. The BBD 0114-1 also has increased gain at higher frequencies. starts in the FM radio band covering the very The BBD series is capable of design extension wide range through the "sweet spot" beyond its current band, and can be customised encompassing TETRA, DECT, GSM, TY, 3G, for applications below 100MHz and above WiFi, and microwave radio to 10GHz. 13GHz allowing variants of this antenna to be produced to suit individual requirements.

Frequency: 100MHz - >13GHz **VSWR:** Typically better than 2:1 **Polarisation:** Linear Vertical

1030mm Approx. Height: Approx. Width 300mm Approx. Weight 6.7kg

Operational Uses

broadband applications. In addition it can be reducing multi-operational site requirements and site location problems. The BBA0114

Major data transmission benefits from such an ultra wide bandwidth channel are

Very fast pulse rise times

Very low intersymbol interference Very high data signalling rates

Very high information carrying capacity

Typical VSWR

OPL BBD 0114-1 VSWR Vs Frequency

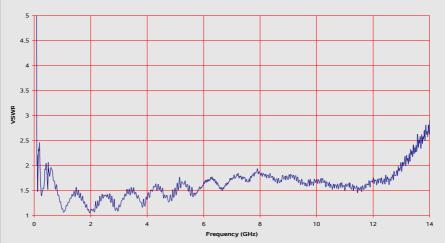
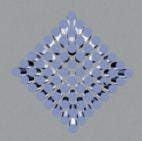


Figure 1 shows a typical VSWR of the BBD 0114-1

ORCHARD BUSINESS CENTRE **CHELTENHAM** GLOUCESTERSHIRE

+44 (0)1242 678 821

info@originalperspectives.com www.originalperspectives.com



Typical Patterns

