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New range of ortho-mode transducers offers high isolation



In addition to the Ku-Band device, the range also includes a C-Band OMT – again for use in commercial satcom systems - and an X-Band version for military applications.

Available in a choice of finishes, the devices feature environmental protection to IP65 and have an operating temperature range of -30 to +50degC.

For customers with non-standard requirements, Link Microtek's experienced engineering team can provide a specialist design service for OMTs and any other waveguide products.

Waveguide manufacturer Link Microtek has introduced a new range of ortho-mode transducers (OMTs) that provide a high isolation of better than 40dB between the Tx and Rx ports. For applications requiring the highest performance, this value can be increased to over 100dB by integrating the OMT with an optional transmit rejection filter.

The OMTs are designed to be attached to the conical feed horn in a mobile satcom system, and their function is to separate Tx and Rx polarisations and frequencies.

Spearheading the range is a Ku-Band OMT, which measures only 55.5mm in length (excluding filter) and is made from aluminium to minimise weight, making it particularly suitable for use on satellite news gathering (SNG) vehicles. This device has a typical Rx bandwidth of 11.0 to 12.75GHz and a typical Tx bandwidth of 13.75 to 14.50GHz, with a maximum transmit power of 56dBm.

Further information from:

Steve Cranstone, Link Microtek Ltd
Tel: +44 (0)1256 355771 Fax: +44 (0)1256 355118
e-mail: steve.cranstone@linkmicrotek.com

Issued by:

Rick Bauling, RJB Communications
Tel: +44 (0)1234 782255 Fax: +44 (0)1234 782744
e-mail: rbauling@rjbcoms.com

