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New waveguide low-pass filters provide 100dB rejection



The new devices are ideal for use as transmit reject filters and are precision engineered to achieve a Chebyshev ripple response with sharp cut-off, a maximum insertion loss of just 0.6dB, and a minimum return loss of typically 20dB.

Fabricated from solid aluminium using CNC machines, these reflective filters feature a corrugated internal design and are supplied with a satin black painted finish as standard. They have an operating temperature range of -30 to +50degC.

In addition to this standard range of low-pass filters, Link Microtek's Engineering Division offers a rapid-turnaround custom design service for these filters for requirements such as non-standard waveguide sizes, flanges or cut-off frequencies.

The new AMQ-LP1 series of waveguide low-pass filters from Link Microtek's Engineering Division have been designed to provide a rejection of better than 100dB, falling to only 70dB at band edges.

Manufactured in-house at the company's Basingstoke facility, the new filter series comprises five standard parts, using waveguide sizes of WR340, WR137, WR112, WR90 and WR75 to deliver cut-off frequencies of 2.75, 8.15, 9.00, 10.40 and 13.50GHz respectively.

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