

## **'Tuned-by-Design' Injector-Diplexer Combines VHF-UHF with All Cellular Bands**



Microlab has released a new low cost Injector-Diplexer, to separate or combine the VHF-UHF band from 80 to 520 MHz from all the wireless frequency bands from 698 to 2700 MHz. Using suspended substrate, the wireless frequency loss is minimized to <math><0.5\text{ dB}</math>, and the loss at VHF-UHF frequencies is <math><0.3\text{ dB}</math>. 'Tuned-by-Design' eliminates the high cost of adjusting multiple cavities in conventional designs, while maintaining high isolation between key bands, sufficient for most diplexer applications, such as sharing a common antenna or distributed antenna system. Passive InterModulation, PIM, is <math><-150\text{ dBc}</math>, and guarantees down to <math>-160\text{ dBc}</math> are available with an additional testing charge. Units are rated for average powers up to 50W per input. This Injector-Diplexer, BK-24, is available in N or DIN connectors, for immediate evaluation from Microlab and selected distributors.

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<http://www.wirelessdesignmag.com/product-releases/2010/04/tuned-design-injector-diplexer-combines-vhf-uhf-all-cellular-bands>