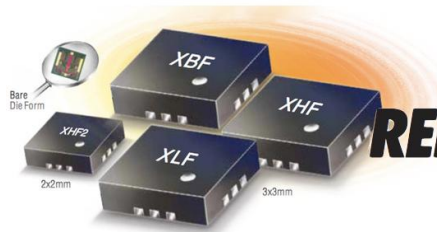


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X-Series **REFLECTIONLESS FILTERS** DC to 30 GHz!

A new class of filter, which exhibits broadband matched impedance at its ports, has recently been invented and made available. This new device, the reflectionless filter, has demonstrated a variety of benefits when used to replace conventional filters in a signal chain.

This white paper briefly introduces the reflectionless filters and compares conventional filters and reflectionless filter behavior. Use cases are presented examining how reflectionless filters can improve system performance when used with mixers, ADCs, and receiver signal chains. Lastly, an experiment is described and test results presented to compare the conversion loss ripple in multiplier chains when reflectionless and reflective filters are used to filter spurious signals. [Read more](#).....

'FILTERING without REFLECTIONS' - White Paper by Mini-Circuits



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High Pass Reflectionless Filter
5000 to 11000 MHz

Mini-Circuits' XHF-53H+ three-section reflectionless filter employs a novel filter topology which absorbs and terminates stop band signals internally rather than reflecting them back to the source.

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