Wi-Fi/WiMax Triplexer Uses Embedded Passive Components

Jacket Micro Devices, Inc. (JMD) announces its Wi-Fi/WiMax triplexer that uses embedded passive components in organic laminates. It allows a single antenna to be shared for devices that operate in the 2.4 to 2.5 GHz and?5 GHz WLAN bands and the 2.3 to 2.7 GHz and 3.3 to 3.8 GHz WiMax bands. A proprietary low temperature laminated organic (LTLO) process is an advanced version of the multi-layer organic (MLO) process that uses multiple layers of liquid crystalline polymer (LCP) to form thin substrates and devices that contain embedded passive components such as filters, baluns, diplexers and triplexers. The triplexer fabricated with LTLO measures only 2.6 × 2.4 × 0.65 mm, and it has lower insertion loss and higher rejection than larger ceramic triplexers. LTLO uses a special lamination and via fill process to reduce the cycle time and cost of fabricating advanced embedded passive components. LTLO components can be used in PWBs and SiP substrates to reduce the cost and size of multi-band wireless products.
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