

Miniature Variable Attenuator Module for Wireless Infrastructure Applications

Avago Technologies has released a fully-matched wideband variable attenuator module for use in a wide range of broadband system applications. The ALM-38140, which is a 50 MHz to 4 GHz PIN diode attenuator module, is a fully integrated solution that uses the company's low distortion silicon PIN diodes housed in a miniature 3.8 mm X 3.8 mm X 1.0 mm multiple-chip-on board (MCOB) package with 6-pin configuration pads. This module is appropriate for use in wireless infrastructure applications such as CATV, WCDMA, VSAT, WiMAX and cellular base station applications. Designed with broadband input and output match, the ALM-38140 does not require any external RF matching component to operate. The device also features high power handling capabilities ($P_{1dB} > 30\text{dBm}$ @ 1,900 MHz), great linearity performance (IIP3: 60 dBm @ 1,900 MHz) and superior dynamic range (35 dB @ 1,900 MHz). With broadband coverage, this miniature variable attenuator module is ideal for use in automatic gain control (AGC) and temperature compensation circuitry applications which operate within the 50 to 4,000 MHz frequency range.

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