

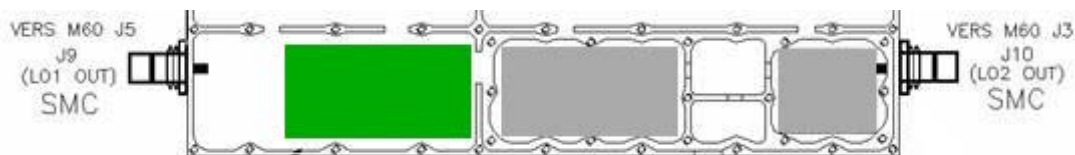
ECCOSORB[®] MCS/SS6M Quells Oscillations in Spectrum Analyzer



A leading manufacturer of Spectrum Analyzers with CATV and QAM / Video demodulation and measurements capabilities turned to Emerson & Cuming Microwave Products to quell an EMI problem in one of their front-end modules.

During the initial design RF engineers discovered that interference was being caused by very poor rejection of the local oscillator carrier after the mixer stage. This in turn caused components to cross-talk (by wave guide phenomenon) within the aluminum housing.

Since the input frequency range of LO1 is 2.1 to 3.6 GHz and LO2 is fixed at 2 GHz, ECCOSORB[®] MCS/SS6M was selected. Recommended for most cavity resonance applications in the 800 MHz to 18 GHz range and standard at .040" thick, MCS was the perfect fit. Supplied with a factory installed SS6M pressure sensitive adhesive, ECCOSORB[®] MCS was custom cut to the customer's dimensions and applied as noted below effectively eliminating the interference.



The green area above denotes ECCOSORB[®] MCS/SS6M installed directly on the PCB (no components present). The gray areas denote the MCS/SS6M installed in the aluminum cavity.