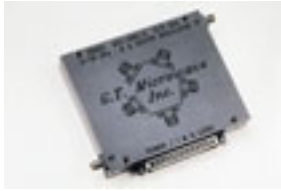


## **G.T. Microwave Inc.**



### **I & Q Vector Modulator**

Model M2L-59N-5 is a 360 $\pm$ 176/20 dB PIN diode I & Q vector modulator that operates from 2.0 - 8.0 GHz. This device offers simultaneous phase and amplitude control. Total phase error across the entire band is less than  $\pm$ 177 15 $\pm$ 176 and amplitude error is less than  $\pm$ 177 2 dB. VSWR is better than 2.0:1 and insertion loss is less than 13 dB. The device demonstrates a linear control input slope with output voltage. With monotonic performance, the device is digitally controlled via 2 sets (I & Q) of 12 Bit TTL compatible, binary logic inputs and the switching speed is less than 500 nSec. The device measures 4.25  $\times$  3.50  $\times$  .75 inch. Also available in the frequency range of 2.0 - 18.0 GHz.

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<http://www.wirelessdesignmag.com/product-releases/2003/04/gt-microwave-inc>