

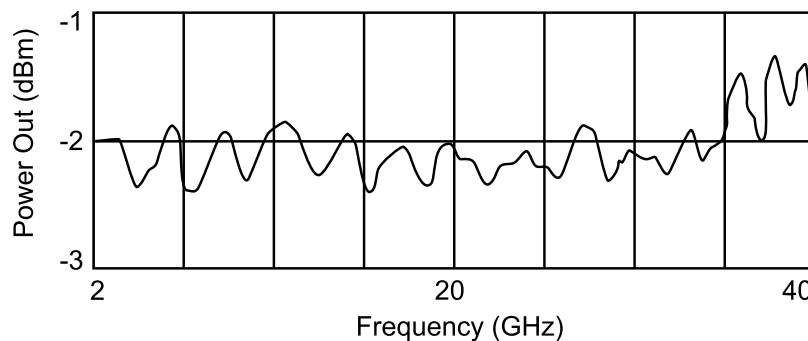
KRYTAR DIRECTIONAL DETECTOR SAMPLES 2 TO 40 GHZ



Stripline techniques enable two components to give flat response from 2 to 40 GHz.

Krytar Model 202040013 is a directional detector consisting of a low VSWR zero bias Schottky detector mounted directly on the housing of the model 102040013 directional coupler. Elimination of the RF connector between the detector and the coupler saves space, minimizes frequency response ripple normally caused by coupler/detector impedance mismatches, and improves the overall ruggedness of the design. This design may be used in both Military and Commercial applications.

The detector circuitry is housed inside a coaxial detector module. The detector module is the same as used in Krytar's State-of-the-art 100 MHz to 40 GHz zero bias Schottky detectors. The Model 202040013 directional detector was specifically designed to provide fast pulse response with an output capacitance of only 3 pF. This and a typical detector video impedance of 3.0 K Ohms give a typical unloaded output pulse rise time of under 20 ns. The frequency response of the directional detector is ± 0.8 dB from 2 to 20 GHz and ± 2.5 dB from 2 to 40 GHz (Figure 1). Frequency response data were obtained using a Scalar Analyzer and Krytar Model 9000B Power Meter



(Figure 1) Frequency Response of Model 202040013 Directional Detector

The 40 GHz directional detector is ideal for a wide variety of applications, including power monitoring in broadband EW systems, test setups, signal leveling in test systems and signal generators. Connectors are 2.4mm or 2.92mm Female. Krytar offers Directional Detectors from 0.5 to 40 GHz in various bandwidths. Visit Krytar Website www.krytar.com for detailed data sheets on all models.