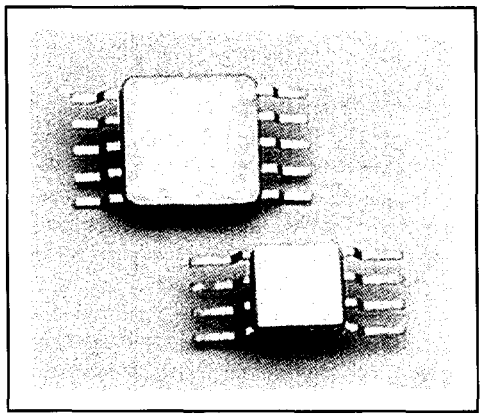
SURFACE MOUNT TUNNEL DETECTORS MODULES

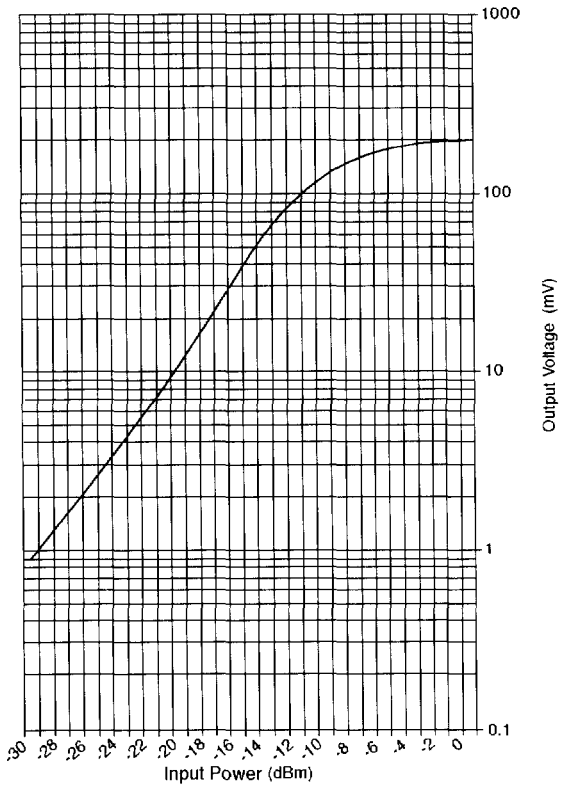


Advanced Control Components offers a series of tunnel detectors built in surface mount modules. These modules include full detector circuits with DC returns and RF bypass capacitors. Options include input pads or limiters *(1) to modify the operational range of offer input protection. The small size of surface mount packages allows for easier design and lower cost. They offer high reliability, and are hermetically sealed making them ideal for operation in harsh environments. Thermal stability is one of the prime advantages of tunnel diode detectors. Frequencies range from 10MHz to 4GHz. The output will not vary more than +/-0.15dB over the temperature range of -65°C to +100°C at these low frequencies. They have high sensitivity without any bias needed for operation. Standard output polarity is negative, but positive output is an option (substitute (P) for (N) in model number.)

FEATURES

- Thermal Stability
- Small Size
- No Bias Required
- Low Video Impedance

SURFACE MOUNT TUNNEL DETECTOR MODULE PERFORMANCE



ACTM-1129NM47 TRANSFER CHARACTERISTICS

SURFACE MOUNT TUNNEL DETECTOR MODULE TECHNICAL SPECIFICATIONS

Model Number	Frequency Range (GHz)	Minimum Sensitivity K (mv/mw)	Flatness vs Frequency (± dB)	Typical VSWR	Case Style
ACTM-1114NM47	10-500 MHz	800	0.3	2:1	M47
ACTM-1129NM47	0.1 - 4.0	900	0.4	2:1	M47
ACTM-1130NM47	2.0 - 4.0	900	0.3	2:1	M47
ACTM-1133NM47	250 - 750 MHz	950	0.2	2:1	M47
ACTM-1136NM47	0.5 - 2.0	1000	0.2	2:1	M47
ACTM-1137NM47	1.0 - 2.0	1000	0.2	2:1	M47
ACTM-1146NM47	0.5 - 1.0	1000	0.2	2:1	M47

NOTES:

1. Contact the factory for these options.
2. The larger M10 package may be required if limiters and input pads are included. Contact factory for special requirements.

Tel.: 732 460-0212
Fax: 732 460-0214
e-mail: sales@advanced-control.com
Web: www.advanced-control.com