

# MICROWAVE POWER SOURCES

915/2450 MHz

## MEASUREMENT DEVICES

### MICROWAVE DETECTOR

### TYPE: MDDNBNC

MDDNBNC is a general-purpose zero-bias Schottky diode microwave coaxial detector intended primarily for 900 MHz and 2450 MHz industrial applications. The detector delivers well-scaled DC voltage as a function of incident microwave power.



### Specifications

Frequency range	880 - 930 MHz	2350 - 2550 MHz
Frequency response variation (max)	? 0.25 dB	? 0.5 dB
Typ. output voltage; $P_{in}=1\text{ mW}$ , $R_{load}=33\text{ k}\Omega$	140 mV	220 mV
VSW R max	2	
VSW R typ	1.3	
Statistical spread of output voltage	? 1 dB (3-? deviation)	
Output voltage polarity	Negative	
Output voltage temp. variation (5 to 65°C)	< 3 dB	
Video resistance (typ)	8 k?	
Input RF connector	N-M	
Max input power	10 mW	
DC output connector	BNC-F	
Dimensions mm (L x W x H)	58 x 26 x 26	

Typical transfer characteristic ( $R_{load}=33\text{ k}\Omega$ ,  $T_a=250\text{ C}$ ):

