

DM211: Microwave Detector

General description

DM211 is a general-purpose zero-bias Schottky diode microwave coaxial detector intended primarily for 900 MHz and 2450 MHz industrial applications.

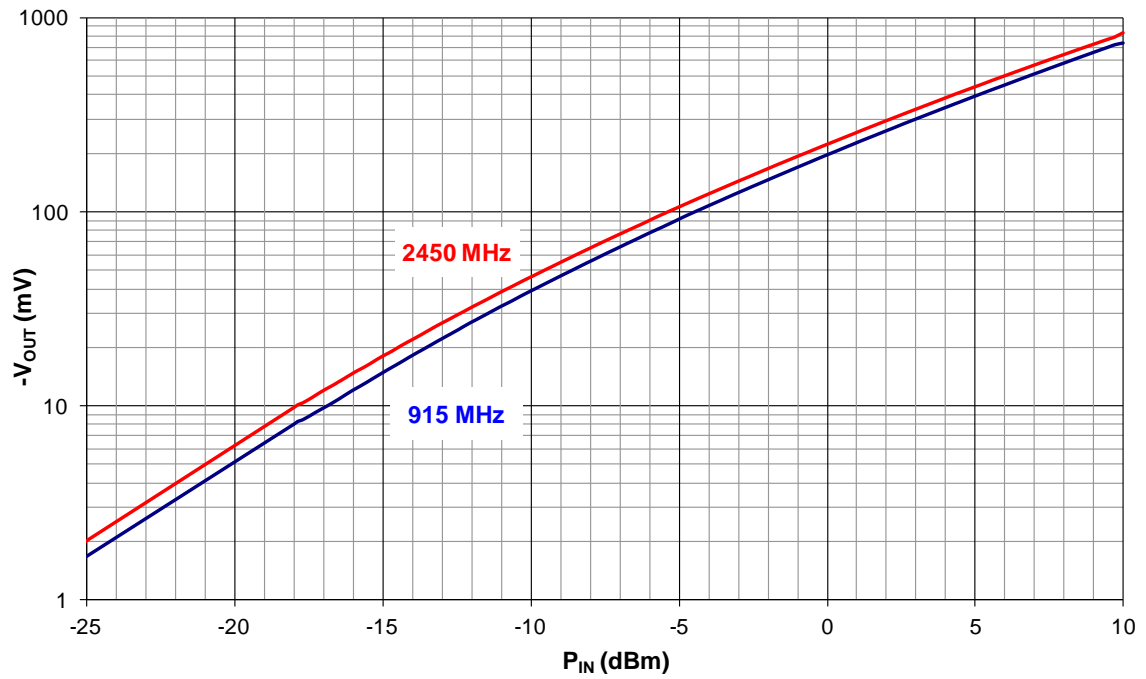
The detector delivers well-scaled DC voltage as a function of incident microwave power.



Specifications

Frequency range	880 ÷ 930 MHz	2350 ÷ 2550 MHz
Frequency response variation (max)	±0.25 dB	±0.5 dB
Typical output voltage; $P_{IN} = 1 \text{ mW}$, $R_{LOAD} = 33 \text{ k}\Omega$	190 mV	220 mV
VSWR max	2	
VSWR typ	1.3	
Statistical spread of output voltage	±1 dB (3- σ deviation)	
Output voltage polarity	Negative	
Output voltage temp. variation (5 to 65 °C)	< 3 dB	
Video resistance (typ)	8 k Ω	
Max input working power	10 mW	
Max input power (destruction limit)	100 mW	
Input RF connector	N-M	
Output DC connector	BNC-F	
Dimensions mm (L x W x H)	58 x 26 x 26	

Typical transfer characteristic ($f = 915 \text{ MHz}$ and 2450 MHz , $R_{\text{LOAD}} = 33 \text{ k}\Omega$, $T_A = 25 \text{ }^\circ\text{C}$)



Dimensional drawing (all dimensions in millimeters)

