

DM311 Microwave Detector

General description

DM311 is a general-purpose zero-bias Schottky diode microwave coaxial detector with N-connector intended for 5.8 GHz industrial applications. The detector delivers well-scaled DC voltage as a function of incident microwave power.

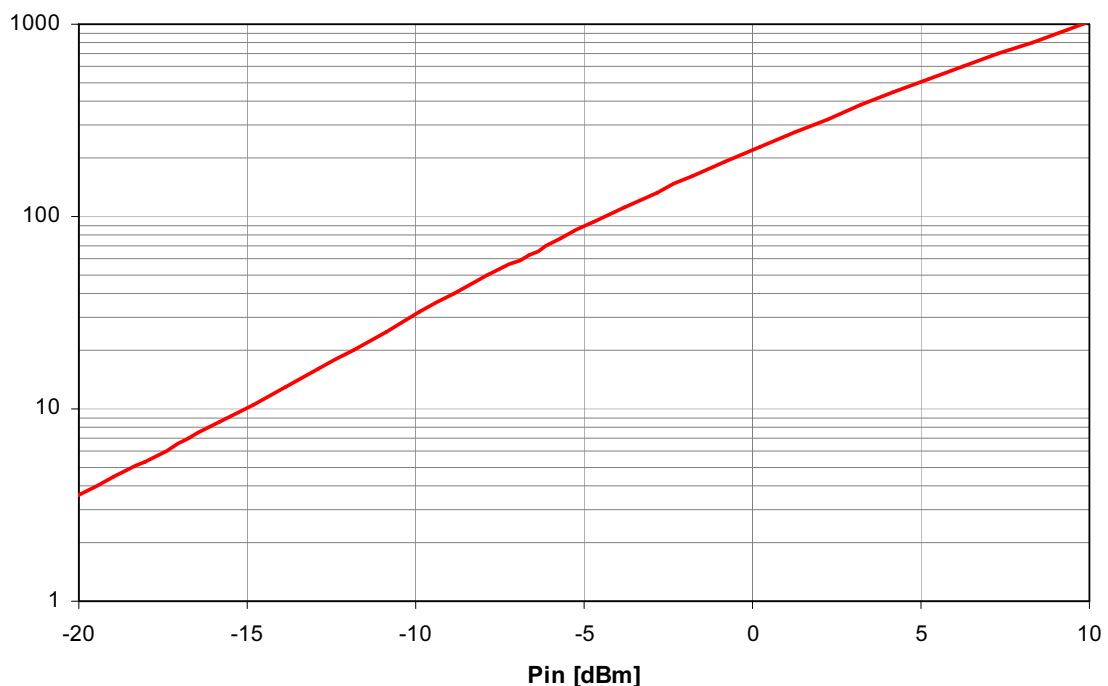
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Specifications

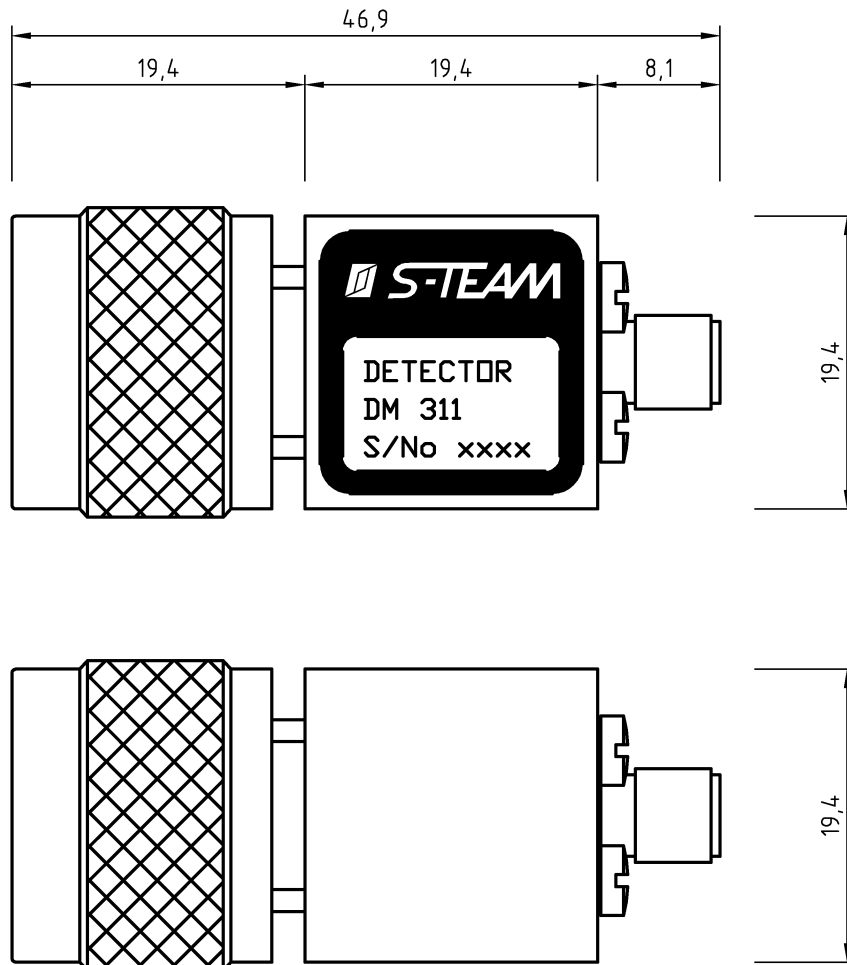
Frequency range	5.5 – 6.1 GHz
Output voltage ($P_{IN} = 1 \text{ mW}$, $R_{LOAD} = 33 \text{ k}\Omega$)	220 mV typ.
Frequency response variation	$\pm 0.5 \text{ dB max.}$
Statistical spread of output voltage	$\pm 1 \text{ dB (3-}\sigma \text{ deviation)}$
Temperature variation of output voltage	$< 0.5 \text{ dB in } 5 \text{ to } 65 \text{ }^\circ\text{C range}$
Output voltage polarity	Negative
Maximum input power	10 mW
VSWR	1.3 typ., 2 max.
Video resistance	8 k Ω typ.
Input connector	N-M
DC output connector	SMA-F
Dimensions (L x W x H)	46.9 x 19.4 x 19.4 mm

Typical transfer characteristic ($f = 5.8 \text{ GHz}$, $R_{LOAD} = 33 \text{ k}\Omega$, $T_A = 25 \text{ }^\circ\text{C}$)

-Vout [mV]



Dimensional drawing (all units in millimeters)



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Actual size

