



PASTERNACK ENTERPRISES, INC.
PO Box 16759
Irvine, CA 92623-6759

Toll Free: (866) 727-8376
Direct: +1 (949) 261-1920
FAX: +1 (949) 261-7451
Sales: sales@pasternack.com
Tech Support: techsupport@pasternack.com

PE8001 thru PE8009-P Biased Schottky Diode Detectors

Product Features

- High Sensitivity
- Extremely Flat Response
- Low Video Output Resistance (350Ω, typical)
- Hermetically Sealed Modules
- Negative & Positive Bias versions



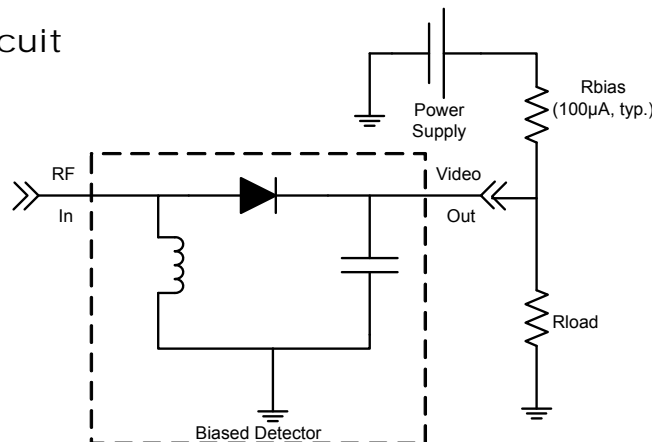
General Specifications ⁽¹⁾

Parameter	Units	Value	Description
Impedance	ohms	50Ω	
Maximum Input Power	mW	200	CW
Typical Bias Level	μA	100	At 25° C and -20dBm input power
Operating Temperature	C	-55° to +125°	
Storage Temperature	C	-65° to +150°	
Body Material		Passivated Stainless Steel	
Contact		Gold Plated	
RF Input Connector		SMA Male	
Video Output Connector		SMA Female	

Detector Types

Negative Bias P/N	Positive Bias P/N	Frequency (GHz)	Voltage Sensitivity (mV/mW, Typ.)	Tss ² (dBm, Typ.)	Flatness (±dB Max.)	Video Capacitance (pF)
PE8001	PE8001-P	0.5 – 1.0	1800	-52	0.5	50
PE8002	PE8002-P	1.0 – 2.0	2000	-52	0.5	20
PE8003	PE8003-P	2.0 – 4.0	2000	-52	0.5	10
PE8004	PE8004-P	4.0 – 8.0	2000	-52	0.5	10
PE8005	PE8005-P	6.0 – 18.0	1600	-52	0.8	10
PE8006	PE8006-P	8.0 – 12.0	1800	-52	0.5	10
PE8007	PE8007-P	8.0 – 16.0	1800	-52	0.6	10
PE8008	PE8008-P	8.0 – 18.0	1600	-52	0.7	10
PE8009	PE8009-P	18.0 – 26.5	1500	-52	1.0	10

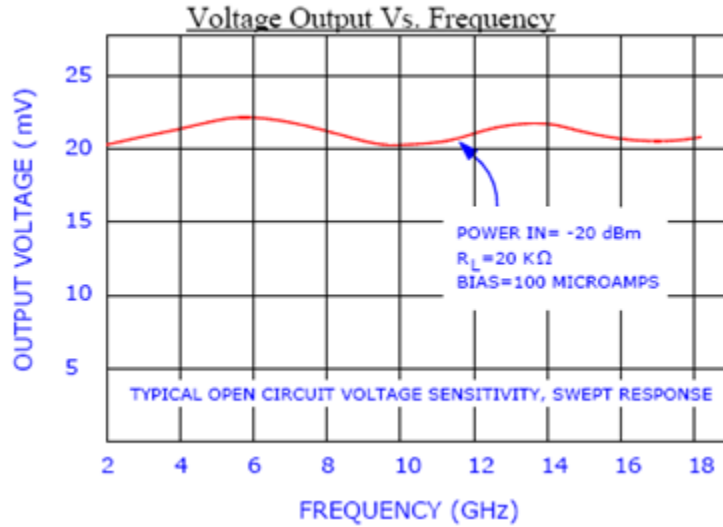
Generic Bias Circuit



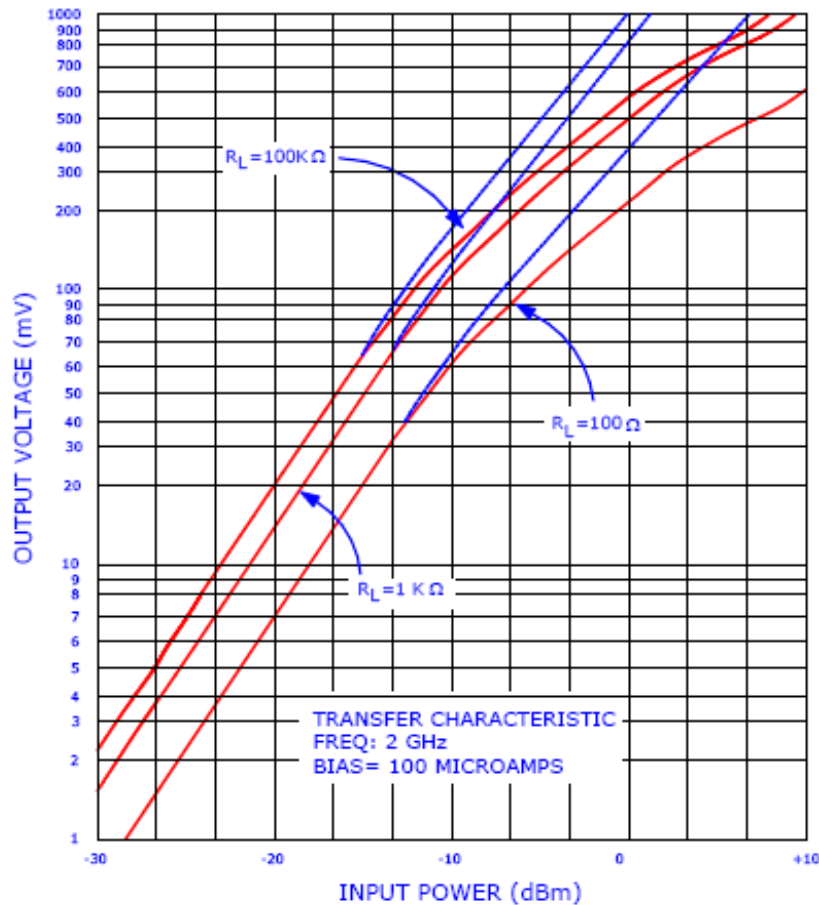
(1) Pasternack reserves the right to change specifications or information without notice.

(2) Tss is measured with a 2 MHz Video Bandwidth and 2 dB Noise Figure Amplifier.

Typical Performance



TRANSFER CHARACTERISTIC



- (1) Pasternack reserves the right to change specifications or information without notice.
 - (2) Tss is measured with a 2 MHz Video Bandwidth and 2 dB Noise Figure Amplifier.
- www.pasternack.com