

**SPECIFICATION SHEET**

**JFW MODEL 50D-052**

**DETECTOR**

JFW Industries, Inc.  
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Frequency Range 1-3000 MHz

Impedance 50 Ohms nominal

VSWR 1.2:1 maximum 1-1000 MHz  
1.3:1 maximum 1000-2000 MHz  
1.4:1 maximum 2000-3000 MHz

Flatness ± 0.2 dB 1-500 MHz  
± 0.3 dB 500-2000 MHz  
± 0.5 dB 2000-3000 MHz

Typical Sensitivity  
(-20 dBm) 0.006 V  
(-10 dBm) 0.050 V  
( 0 dBm) 0.220 V  
(+10 dBm) 0.840 V  
(+20 dBm) 2.650 V

Output Capacitance 1000 pF nominal

DC Output Polarity Positive or Negative  
(customer to specify)

RF Input Power 100 mW

RF Input Connector TNC, N, BNC or SMA male

DC Output Connector TNC, SMA, BNC or N female

Operating Temperature Range -40°C to +85°C

Storage Temperature Range -55°C to +85°C

Humidity 0 to 95% (Non-Condensing)

Outline Drawing Numbers 092-3134 (Connector Chart)  
092-5251 (N M / BNC F)  
092-5252 (BNC M / BNC F)  
092-5402 (SMA M / BNC F)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
14148	05/02/2007	A	CLK 05/02/2007	23449	11/11/2013	D	BAC 11/11/2013
15350	02/11/2008	B	CLK 02/11/2008	26700	06/08/2016	E	CLK 06/08/2016
23218	09/05/2013	C	BAC 09/05/2013	27494	01/23/2017	F	TRS 01/23/2017