## **DETECTOR LOG VIDEO AMPLIFIERS**

### **MODEL: FBLA SERIES**

### **FEATURES**

- · Ultra-broadband units
- Logarithmic linearity ±1.5 dB max.
- Temperature range -20 to +90°C
- 70 dB dynamic range

### **OPTIONS**

- Customized center frequencies and frequency agility
- Extended environmental limits
- · Military screening available



MODEL Number	OPERATIONAL Frequency Range (GHz)	INPUT Dynamic Range (dBm)	TANGENTIAL SENSITIVITY (dBm)	VIDEO Flatness (±dB)	RISE TIME (ns)	FALL TIME (ns)	RECOVERY TIME (ns)
		STANE	ARD DYNAMIC	RANGE			
FBLA-0.5/2.0-40AC	0.5 – 2	-40 to 0	-44	0.5	30	45	150
FBLA-2/4-40AC	2 – 4	-40 to 0	-44	0.5	30	45	150
FBLA-4/8-40AC	4 – 8	-40 to 0	-43	0.75	35	50	180
FBLA-8/12-40AC	8 – 12	-40 to 0	-43	1	35	50	180
		EXTEN	DED DYNAMIC R	ANGE			
FBLA-0.1/1-70BC	0.1 – 1	-67 to +3	-70	1.5	40	120	350
FBLA-0.5/1.5-70BC	0.5 - 1.5	-67 to +3	-70	1.5	40	120	350
FBLA-1/2-70BC	1 – 2	-65 to +5	-68	1.5	40	120	350

#### **ADDITIONAL SPECIFICATIONS**

For standard and extended dynamic range DLVAs, linearity measured at center frequency and 25°C is ±1 dB.

Add  $\pm 0.5$  dB over operating temperature of -40 to +85°C and  $\pm 0.5$  dB over operating bandwidth.

Logging slope for standard dynamic range DLVA is 100 mV/dB at center frequency and 25°C.

Logging slope for extended dynamic range DLVA is 15 mV/dB at center frequency and 25°C.

Slope variations of  $\pm 5\%$  variation will occur over operating bandwidth.

An additional ±5% will occur over operating temperature of -40 to +85°C

Video output is DC coupled and rated into 93  $\boldsymbol{\Omega}.$ 

DC offset drift is ±50 mV typical over operating temperature of -40 to +85°C.

Input VSWR < 2.0:1 typical from 0.1 to 4 GHz and < 2.5:1 from 4 to 12 GHz.

Power: ±12 VDC at 100 mA typical for standard dynamic range and 200 mA typical for extended dynamic range.

#### **ORDER OPTIONS**

For ±15 VDC, add suffix "C".

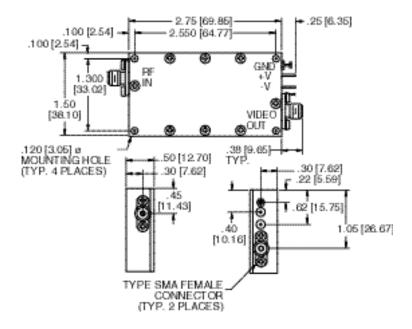
Typical part number: FBLA-0.1/1.0-70BC (for 'B' housing at  $\pm 15$  VDC).

NOTE: FOR MODIFICATION OF OUR STANDARD MODELS, PLEASE CONSULT FACTORY.

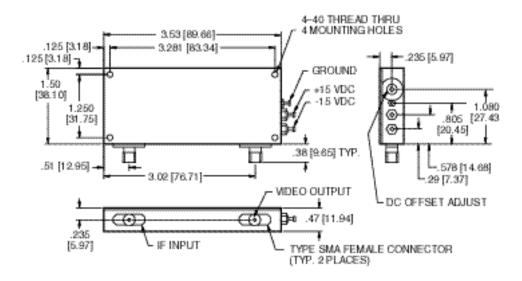


# **FBLA SERIES OUTLINE DRAWINGS**

#### **OUTLINE A**



### **OUTLINE B**



NOTE: DIMENSIONS SHOWN IN BRACKETS [ ] ARE IN MILLIMETERS.

