AMPLIFIER SOLUTIONS CORPORATION

ASC3097C

RF Amplifier

* **Operating Frequency : 2400-2600 MHz.**
* **Gain : 70 dB.**
* **NF: 1.5 dB.**
* **P1dB: 18 dBm.**
* **No external components required**

ELECTRICAL SPECIFICATION @ VDD= +15 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	2400	2500	2600	MHz.
Gain	G	67	70	74	dB.
Gain Flatness	Δ G		±0.5	±1.0	dB.
Noise Figure	N.F.		1.5	2	dB.
Output Power	P 1dB	16	18		dBm.
Output IP3	OIP3	26	30		dBm.
Reverse Isolation		60	65		dB
VSWR in/out	S11/S22		1.6:1	1.8:1	Ratio
Operating Voltage	Vdc		12	15	Volt
Operating Current	Id		320	350	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.5 (L) x 1.0(W) x 0.5(H)		
Sealing	Epoxy Seal		
Finished Coating	Nickle Plated		
Cooling	None		
In/Out Connectors	SMA-F (Field Replaceable)		

PROTECTION		Max	
RF Input Power CW		-50	dBm.
Reverse Polarity Protection	NO		
Stability	100% Tested		

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-40		85	°C
Storage Temperature	Tstg	- 65C		125°C	°C
Altitude	MIL-STD-202F, METHOD 105C COND.B				
Vibration	MIL-STD-202F, METHOD 204D COND.B				
Humidity	MIL-STD-202F, METHOD 103B COND.B				
Temperature Cycle	MIL-STD-202F, METHOD 107D COND.A				
Shock	MIL-STD-202F, METHOD 123B COND.B				

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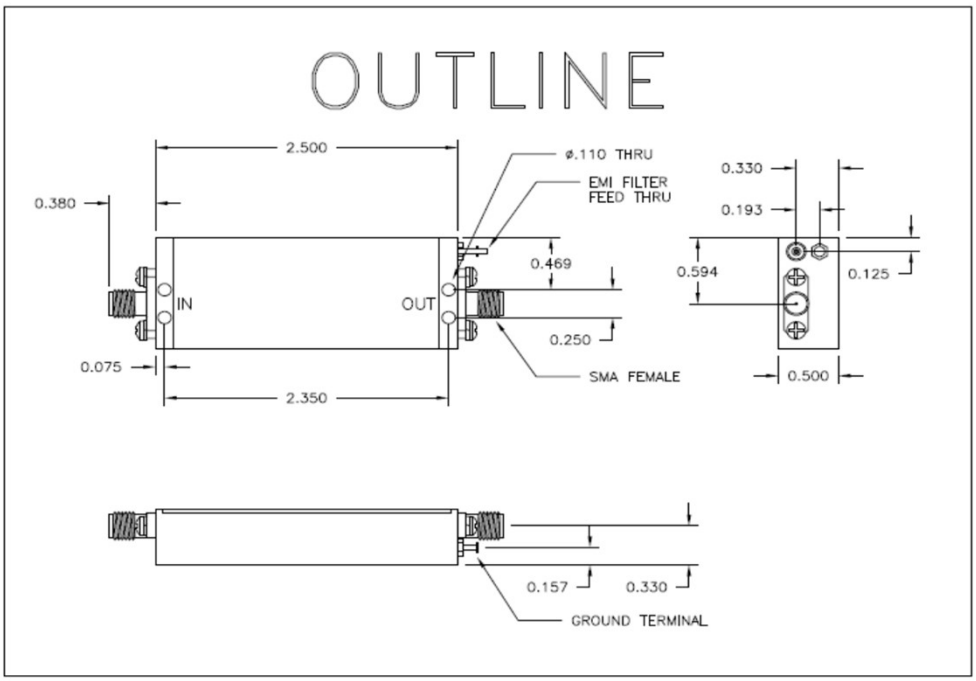
Outline Drawing



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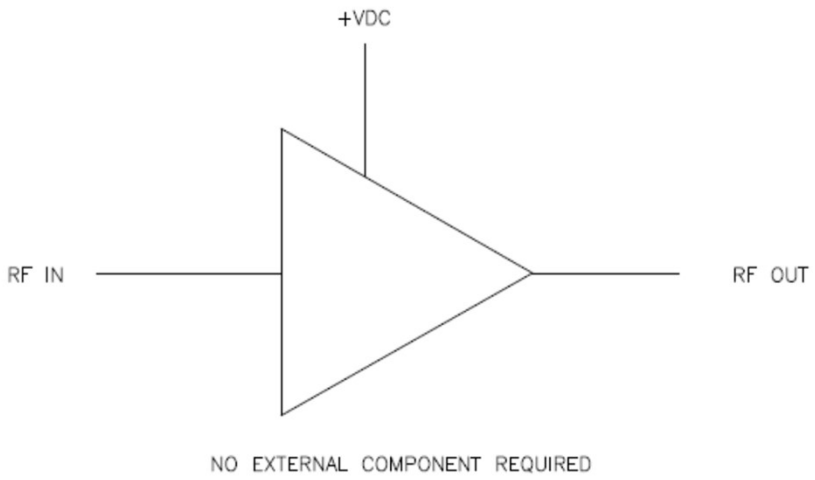
FUNCTIONAL BLOCK DIAGRAM



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