

RF Amplifier

- * Operating Frequency : 2400-2600 MHz.
- * Gain : 50 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	47	50	54	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		200	220	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	13	dBm.
Reverse Polarity Protection	NO	
Stability	100% Tested	

ENVIRONMENTAL CHARACTERISTICS

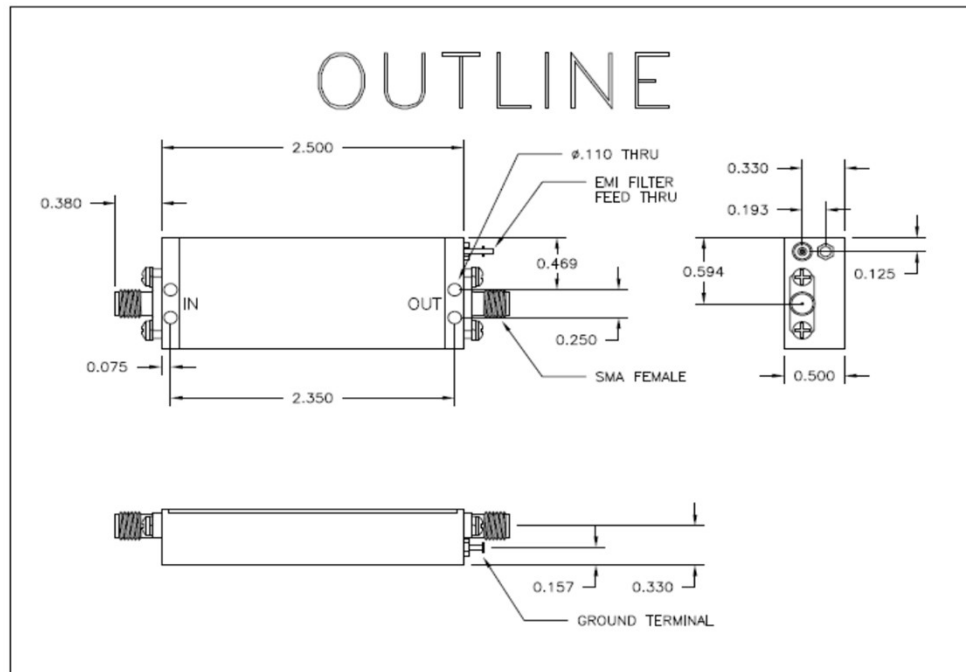
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-40		85	°C
Storage Temperature	Tstg	- 65C		125°C	°C
Altitude	MIL-STD-202F, METHOD 105C COND.B				
Vibration	MIL-STD-202F, METHOD 204D COND.B				
Humidity	MIL-STD-202F, METHOD 103B COND.B				
Temperature Cycle	MIL-STD-202F, METHOD 107D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

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Outline Drawing



FUNCTIONAL BLOCK DIAGRAM

