

General Purpose RF Amplifier

- * Operating Frequency : 5-1000 MHz.
- * Gain : 11 dB.
- * Noise Figure : 9.0 dB. max
- * No external components required



Description:

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

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	5		1000	MHz.
Gain @ 5-20 MHz		10	10.5	11	dB.
Gain @ 20-1000 MHz		10.5	11	11.5	
Gain Flatness	Δ G		±0.5	± 1.0	dB.
Reverse Isolation	S12	14	16		dB.
Noise Figure	NF		7.8	9	dB.
Power Output P1dB	P1dB	14	16		dBm.
Output 3rd Order Intercept Point	OIP3	22	25		dBm.
Output 2nd Order Intercept Point	OIP2	32	35		dBm.
VSWR in/out	S11/S22		1.8 :1	2.1 :1	Ratio
Operating Voltage	Vdc		15		Volt
Operating Current	Id		70	80	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	TO-12		
RF Connectors IN/OUT	NONE		
DC Connector	NONE		
Cooling	NONE		

PROTECTIONS

RF Input Power	13 dBm.	
Reverse Polarity Protection	None	
Load VSWR	Infinite up to 1W	
Stability	100% Tested	

ENVIROMENTAL CHARACTERISTICS

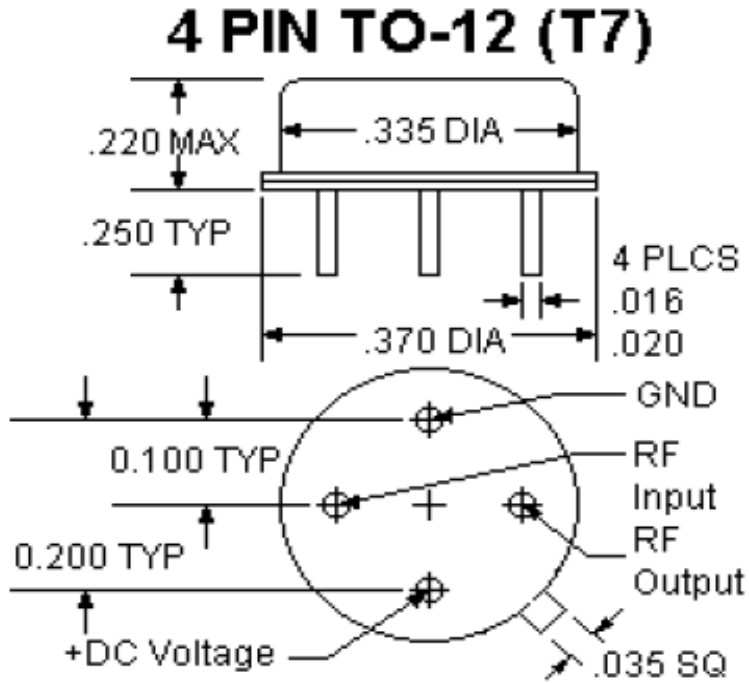
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	- 55°C		85°C	°C
Storage Temperature	Tstg	- 62C		125°C	°C

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Outline Drawing



FUNCTIONAL BLOCK DIAGRAM

