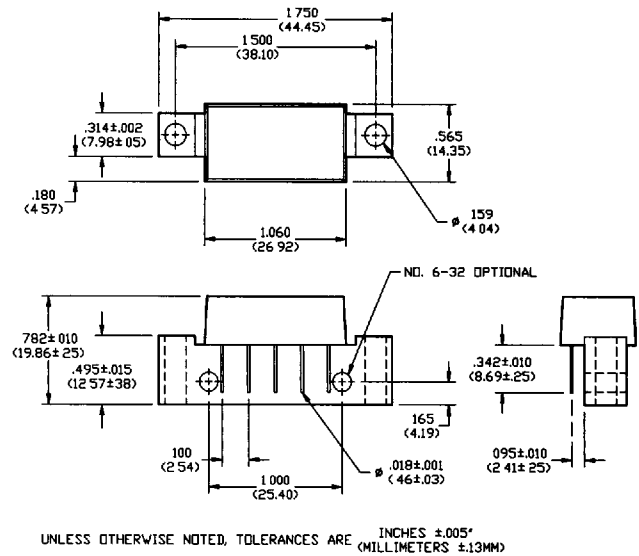


Features

- Broadband Operation 50 to 450 MHz
- Push-Pull Cascode Configuration
- Thick Film Substrate Circuit
- Gold Metallized Bipolar Transistors
- 50 Ohms Input and Output Matched

Outline Drawing



Absolute Maximum Ratings at 25°C

Parameter	Symbol	Rating	Units
Supply Voltage	V_{CC}	28	V
Input Power	P_{IN}	0.02	W
Output Power	P_{OUT}	1.25	W
Operating Case Temperature	T_C	-30 to +90	°C
Storage Temperature	T_{STG}	-40 to +100	°C

Electrical Characteristics at 25°C

Parameter	Symbol	Min	Max	Units	Test Conditions
Output Power	P_{OUT}	1.0	-	W	$V_{CC}=24\text{ V}$, $P_{IN}=16\text{ mW}$, $I_C=440\text{ mA}$, $F=50\text{-}450\text{ MHz}$
Power Gain	G_p	18	-	dB	$V_{CC}=24\text{ V}$, $P_{OUT}=1\text{ W}$, $I_C=440\text{ mA}$, $F=50\text{-}450\text{ MHz}$
Input/Output VSWR	VSWR	-	2:1	-	$V_{CC}=24\text{ V}$, $P_{OUT}=1\text{ W}$, $I_C=440\text{ mA}$, $F=50\text{-}450\text{ MHz}$
Third Order Intercept Point	ITO	45	-	dBm	$V_{CC}=24\text{ V}$, $I_C=440\text{ mA}$, $F=50\text{-}450\text{ MHz}$
Gain Flatness	G_F	-	+/-0.25	dB	$V_{CC}=24\text{ V}$, $P_{OUT}=1\text{ W}$, $I_C=440\text{ mA}$, $F=50\text{-}450\text{ MHz}$
Noise Figure	NF	-	6	dB	$V_{CC}=24\text{ V}$, $I_C=240\text{ mA}$, $F=50\text{-}450\text{ MHz}$
Gain Slope	G_s	-	0-1.5	dB	$V_{CC}=24\text{ V}$, $P_{OUT}=1\text{ W}$, $I_C=240\text{ mA}$, $F=50\text{-}450\text{ MHz}$

Schematic

