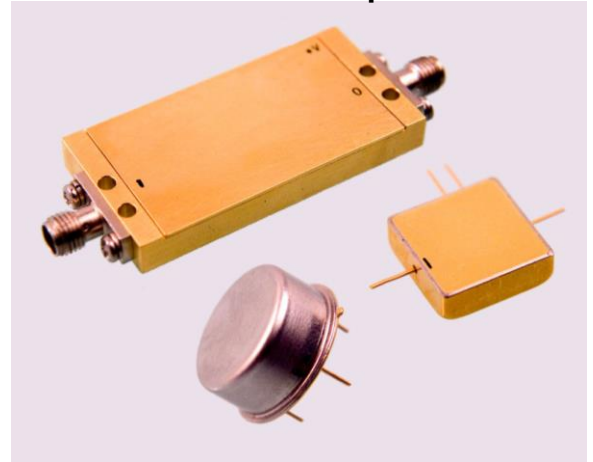


ASC429

20-150 MHz Push-Pull Amplifier

Features: (typical values)

- Low Distortion
- High Second Order IP2 +80.0 dBm.
- High Third Order IP3 +45.0 dBm.
- High Gain..... +15 dB.
- No external components required



Maximum Ratings

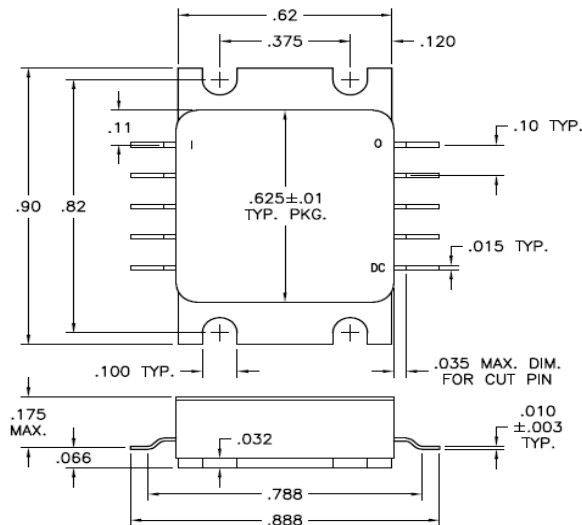
Storage Temperature -55°C to +125°C
 DC Voltage +17 volts
 RF Input Power +15.0 dBm.
 Case Temperature +95°C

Specifications (Referenced to 50 ohms)

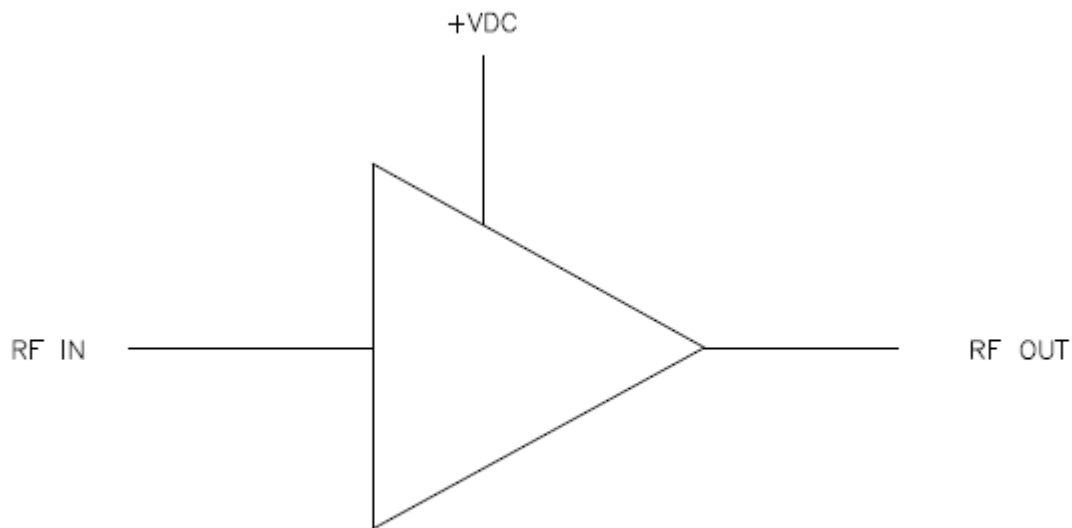
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		20	150	MHz.
Gain	15	13	17	dB.
Gain Flatness	±0.3		±0.7	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+28	+26		dBm.
Noise Figure	3.5		4.0	dB.
Reverse Isolation	22			dB.
IP ₃ /IP ₂ (two tone)*	45/80			dBm.
HIP2 (2 nd harm.)	80			dBm.
VSWR In/Out	1.4:1		2.0:1	Ratio
Supply Required	+15/230		+15V/250	v/mA

Min. and max. values are from 0°C to +85°C

*IP₃ and IP₂ are in band output intercept points



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED