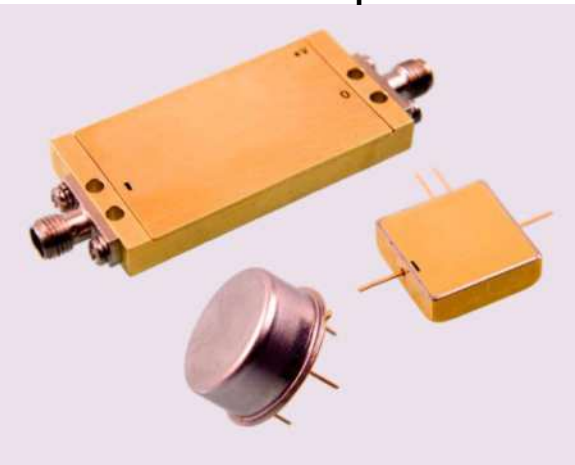
ASC423C

10-1000 MHz
Push-Pull Amplifier



Features: (typical values)

- Low Distortion
- High Second Order IP2 ..... +70.0 dBm.
- High Third Order IP3 ..... +45.0 dBm.
- High Gain..... +27 dB.
- No external components required

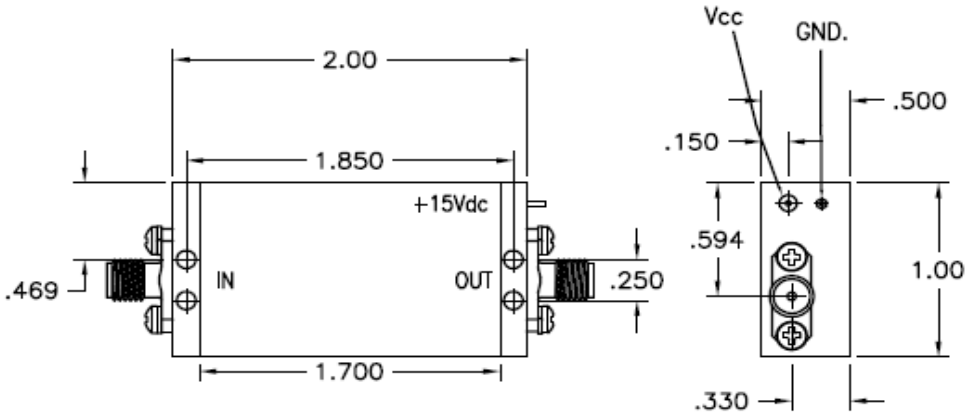
Maximum Ratings

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		10	1000	MHz.
Gain	27	25	29	dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+30	+28		dBm.
Noise Figure	3.5		4.0	dB.
Reverse Isolation	37			dB.
IP_3/IP_2 (two tone)*	45/70	40/60		dBm.
HIP2 (2nd harm.)	75			dBm.
VSWR In/Out	1.4:1		2.0:1	Ratio
Supply Required	+15/430		+15V/460	v/mA

Min. and max. values are from 0˚C to +85˚C
*IP3 and IP2 are in band output intercept points



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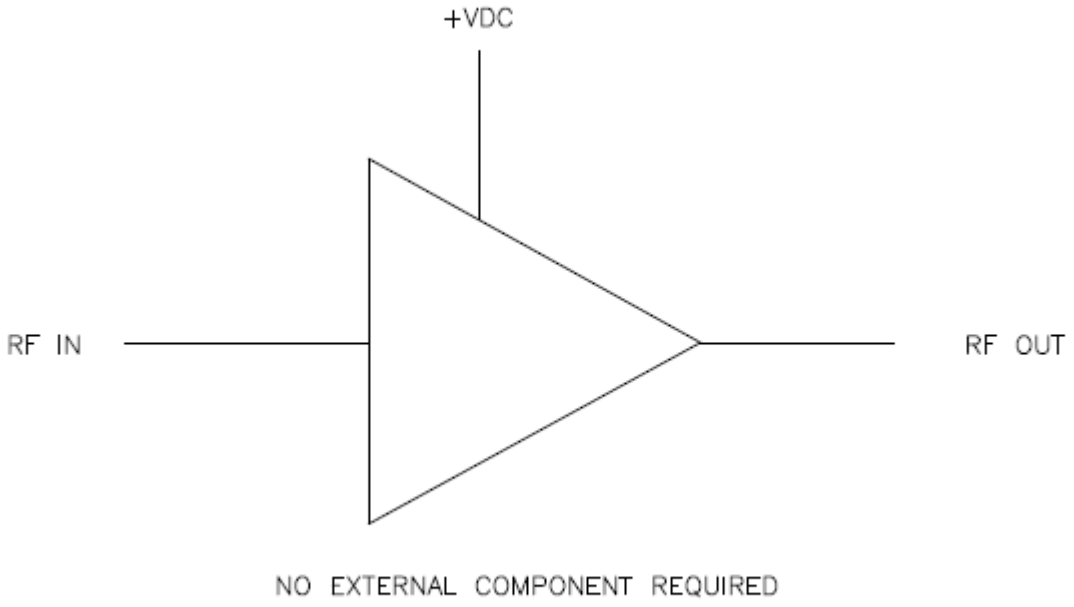
FUNCTIONAL BLOCK DIAGRAM



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