ASC2849C

5000-6000 MHz
Cascade Amplifier

Features: (typical values)

- Bandwidth ……..……..... 5000-6000 MHz.
- Power Out ……... 15 dBm.
- Gain ……..…….. 32 dB.
- Noise Figure……... 1.2 dB.
- No external components required

Maximum Ratings

Storage Temperature …….. -62˚C to +125˚C
DC Voltage ……..…… +15 volts
RF Input Power ……..……..…… 30 dBm.
Case Temperature ……..... +100˚C

Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		5000	6000	MHz.
Gain	32	30		dB.
Gain Flatness	±0.50		±1.0	dB.
Pout @ 1dB Comp	+15	+10		dBm.
Noise Figure	1.2		1.5	dB.
VSWR In/Out	1.8:1		2.0:1	
Supply Required	+15/150		+15/200	v/mA.
Operating Temperature		0C	50C	Deg
Non-Operating Temperature		-55C	85C	Deg
Impedance In/Out	50 Ohms			

Min. and max. Values are from 0˚C to +50˚C
Internal limiting diode requires

3009 Old State Rd, Telford, PA 18969 Phone: 215-799-2561 Fax: 215-799-2563
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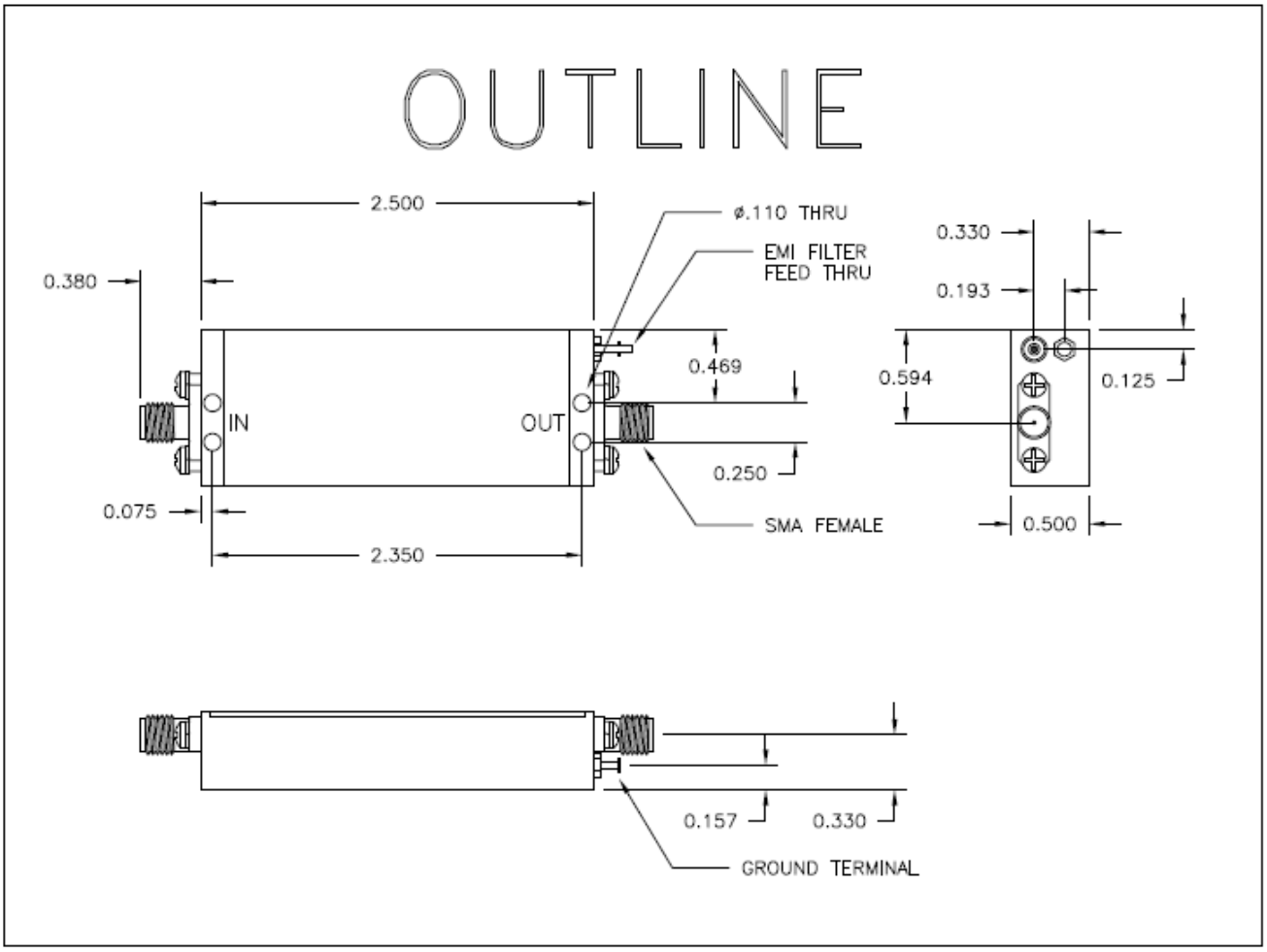
ASC2849C



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FINAL ELECTRICAL TEST REPORT

RECORD DATA @ +25^{0}C ONLY

TEST **Vdc +15V**	**LIMITS** **0^{0}C/+25^{0}C/+50^{0}C**	**ACTUAL DATA**
Gain 5000 MHz to 6000 MHz	 30.0dB min 32.0 dB typ	 36.0 36.7
Gain Flatness 5000 MHz to 6000 MHz	± 1.0 dB max	± 0.35
Spurious Response	Accept/Reject	AC
DC Current at +15 Vdc	200 mA max	91
Input VSWR 5000 MHz to 6000 MHz	2.0 : 1 max	1.69
Output VSWR 5000 MHz to 6000 MHz	2.0 : 1 max	1.84
Noise Figure 5000 MHz to 6000 MHz	1.5 dB max	1.08
P 1.0 dB Compression 5000 MHz to 6000 MHz	10.0 dBm min	13.2
Stability Test. For all frequency range where $\lvert S21 \rvert$ > 0dB	0 dB max	<0
RF Input Power @ 5.5 ghz	+30dbm Max	AC

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FUNCTIONAL BLOCK DIAGRAM