

**8 - 18 GHz 15 dBm Amplifier**
**FEATURES**

- P<sub>1dB</sub>: 15 dBm
- Noise Figure: 4.5dB
- Small Signal Gain: 15 dB
- Bias Condition: 180 mA @ 12 V

**ELECTRICAL SPECIFICATIONS**

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNITS
FREQ	Frequency Range	8		18	GHz
SSG	Small Signal Gain @ 25°C	15	17		dB
GOF	Small Signal Gain Flatness @ 25°C		±1.0	±1.25	dB
P <sub>1dB</sub>	Output Power at 1 dB Gain Compression @ 25°C	15	17		dBm
IP3	Third Order Intercept Point @ 25°C	25	27		dBm
NF	Noise Figure @ 25°C		4.0	4.5	dB
2 <sup>nd</sup>	Second Harmonic @ 25°C, P <sub>1dB</sub>	30			dBc
VSWR, IN	Input VSWR @ 25°C			2:1	-----
VSWR, OUT	Output VSWR @ 25°C			2:1	-----
V <sub>dc</sub>	DC Supply Voltage		12		Volt
I <sub>dc</sub>	Current Supply (Small Signal Gain) @ 25°C		180	210	mA
OTR	Operating Temperature Range	-30		70	°C

CASE:HG4

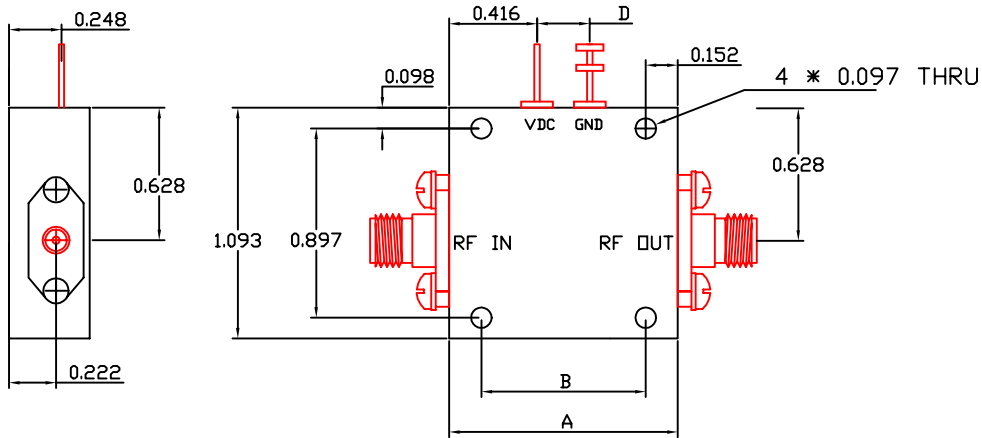
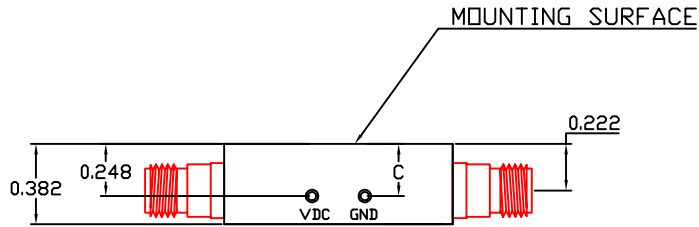
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DWG NO. DOC-907000-1 SH REV 2

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DIM	A	B	C	D
CASE				
HG2	0.841	0.537	0.080	0.13
HG3	1.083	0.779	0.248	0.25
HG4	1.333	1.029	0.248	0.25
HG5	1.583	1.279	0.248	0.25
HG6	1.833	1.529	0.248	0.25

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES  
DECIMALS ANGULAR  
.XX ± .01 ±  
.XXX ± .005 ±  
FINISH 6.3  
DO NOT SCALE DRAWING

CONTRACT NO.	
DRAWN 宋君顯	DATE 05/23/2005
CHECK 張景學	DATE 05/23/2005
PROJ ENGR	
MFG ENGR	
QA ENGR	
RLSE DATE	

<b>TRANSCOM, INC.</b>	
TITLE HOUSING OUTLINE HG	
SIZE B	FSCM NO.
DWG NO. DOC-907000-1	REV 2
SCALE	WEIGHT
SHEET 1	OF 1

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MATERIAL  
**ALUMINUM**

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