

FEATURES:

- 470 MHz ~ 960 MHz;
- 31.0 dB Gain;
- 3.0 dB Noise Figure;
- 35.0 dBm P_{1dB};
- 49.0 dBm IP₃;
- RoHS Compliant;
- Made In USA

APPLICATIONS:

- Mobile Infrastructures;
- GPS;
- CATV/DBS;
- Defense;
- Security System;
- Measurement;
- Fixed Wireless.



LPA04700960A, 470 MHz ~ 960 MHz WIDE BAND POWER AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

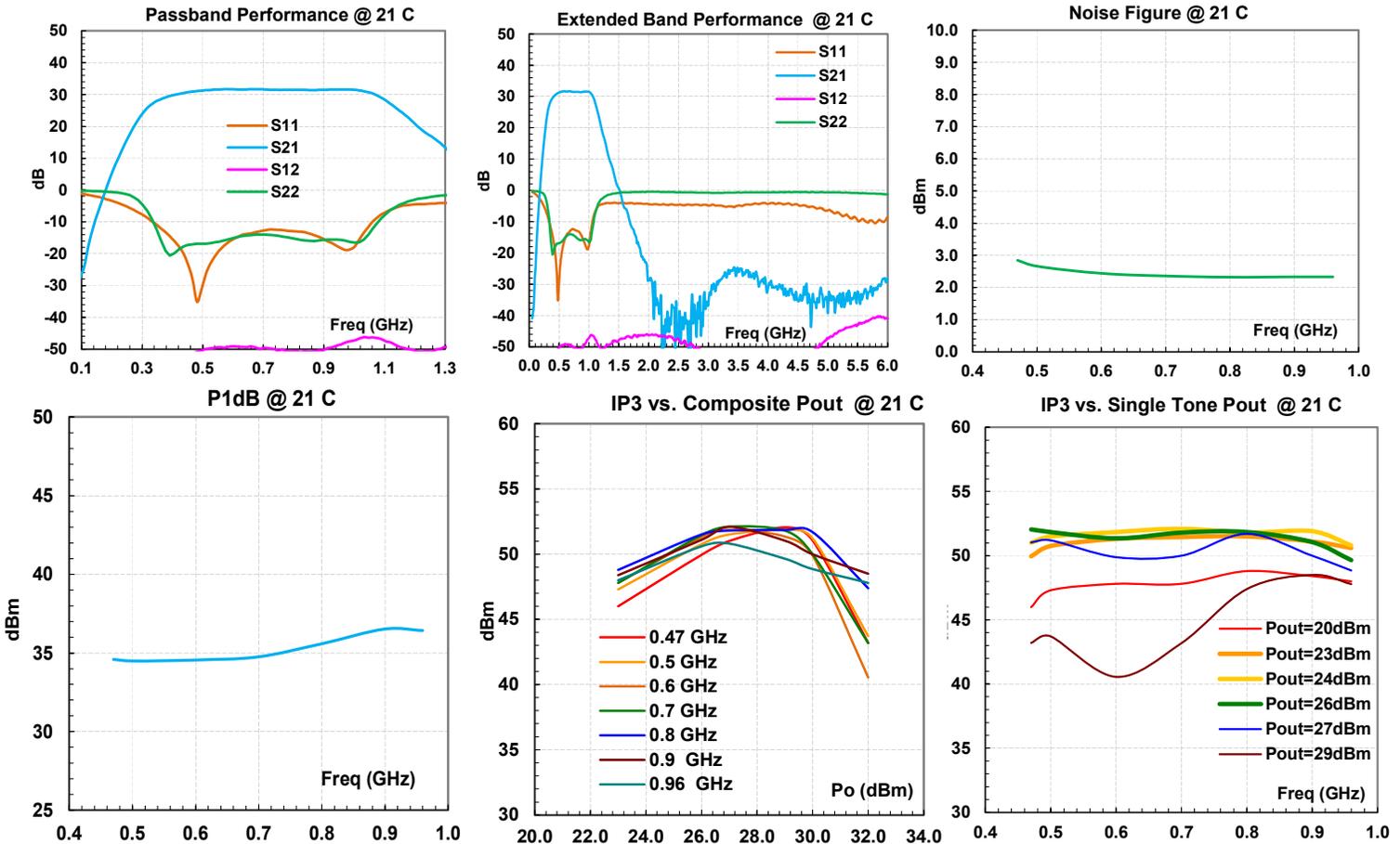
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	29.5	31	32.5
ΔG	Gain Variation	dB		±0.5	±0.75
S ₁₁	Input Return Loss	dB	12	14	
S ₂₂	Output Return Loss	dB	12	14	
S ₁₂	Reverse Isolation	dB	43	48	
NF	Noise Figure	dB		3.0	
P _{1dB}	Output 1dB Gain Compression	dBm	34.5	35	
OIP ₃	Output 3 rd Order Intercept	dBm	47	49	
I _{dd}	Device Current (V _{dd} =+10V)	mA		950	
V _{dd}	Positive Power Supply Voltage	V	+9	+10	+11
Z ₀	Impedance	Ohm		50	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	170
CW RF Input Power	dBm	15
DC Supply Voltage	V	+11
Drain Current	A	1.1
Thermal Resistance	°C/W	9
Total Power Dissipation	W	12
Operating Temperature	°C	-20 ~ +85
Storage Temperature	°C	-55 ~ +150

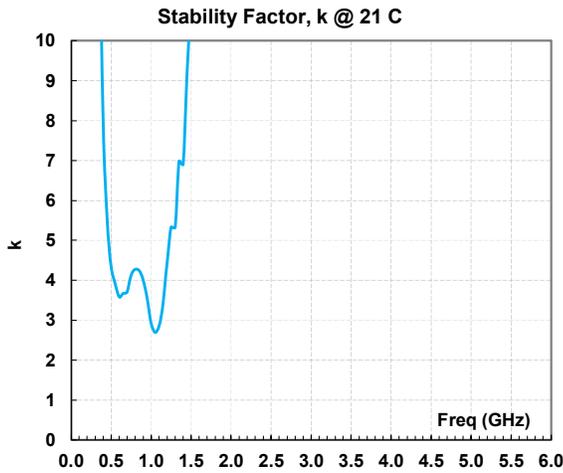
[1] Operation beyond these limits may cause permanent damage.

ELECTRICAL PERFORMANCE



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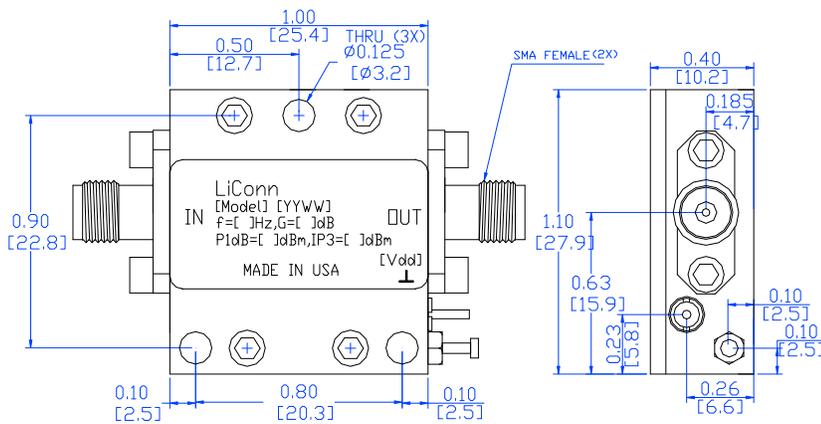
ELECTRICAL PERFORMANCE



ORDERING INFORMATION

Model Number	Input SMA	Output SMA
LPA04700960A	Female	Female

MECHANICAL OUTLINE



Unit: INCH Base Material: Brass
 [mm] Finish: Gold Plating
 Tolerance: X.XX ±0.01"
 X.XXX ±0.005"