

NPA-1-1000-43-40

0.01~1GHz,43dB,40dBm

Features: Applications:
 * Small Size * Wireless
 * Low Power Consumption * Transmitter
 * Laboratory Test

Electrical

Frequency range: 1–1000 MHz (Typ)
 Gain: 43 dB (Min)
 Gain Flatness: ± 5 dB (Max)
 Output P1dB: 40 dBm (Min)
 Output Psat: 43 dBm (Min)
 Spurious: -50 dBc (Max)
 Input VSWR: 1.5 (Typ) / 2.0 :1 (Max)
 DC Voltage: +28 V DC (Typ)
 DC Supply Current: 6 A (Typ)
 Impedance: 50 Ohms (Typ)

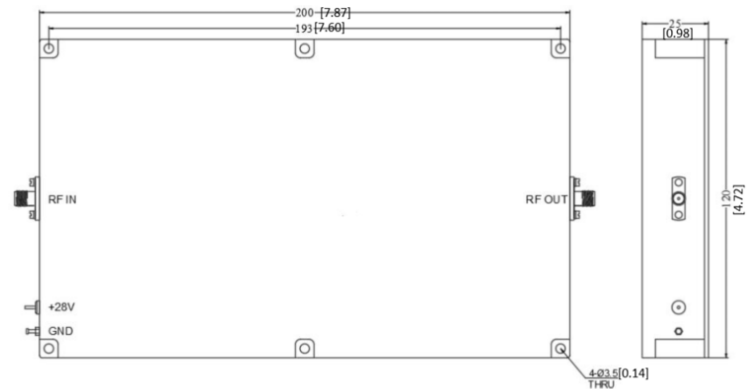
Mechanical

Input / Output Connector: SMA Female / SMA Female
 DC Bias: Solder Pin
 Size: 200 × 120 × 25 mm
 7.87 × 4.72 × 0.98 in
 Weight: 200 g
 Supply Bias Voltage: +32 V
 RF Input Power: +5 dBm
 ESD sensitivity (HBm): Class 0, passed 150 V

Environmental

Operating Temperature: -45 to +85 °C
 Non-operating Temperature: -55 to +125 °C
 Relative humidity: 95 % (Typ)
 Altitude: 30,000 feet (Typ)
 Shock / Vibration: 20 g, 11 ms, saw-tooth
 Shock (non operating): 20 G for 11 ms half sine wave, 3 axis both directions

Outline Drawings



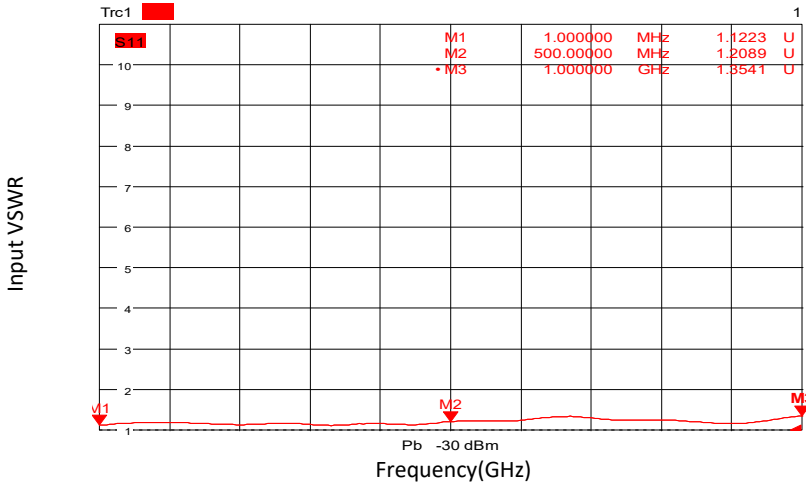
Unit: mm [in]

How To Order

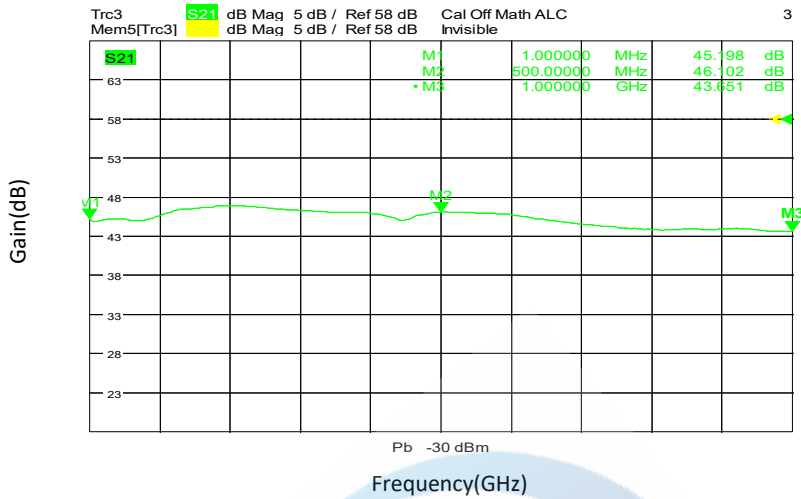
NPA-1-1000-43-40

Customization is available upon request.

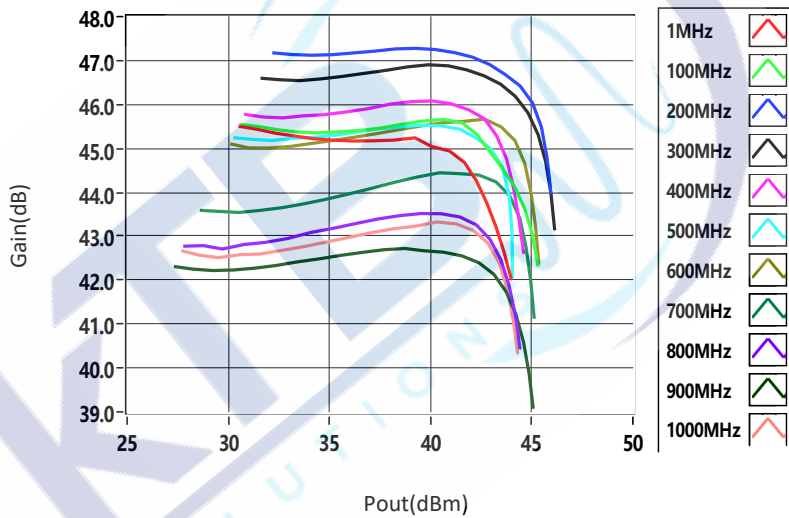
Input VSWR vs Frequency



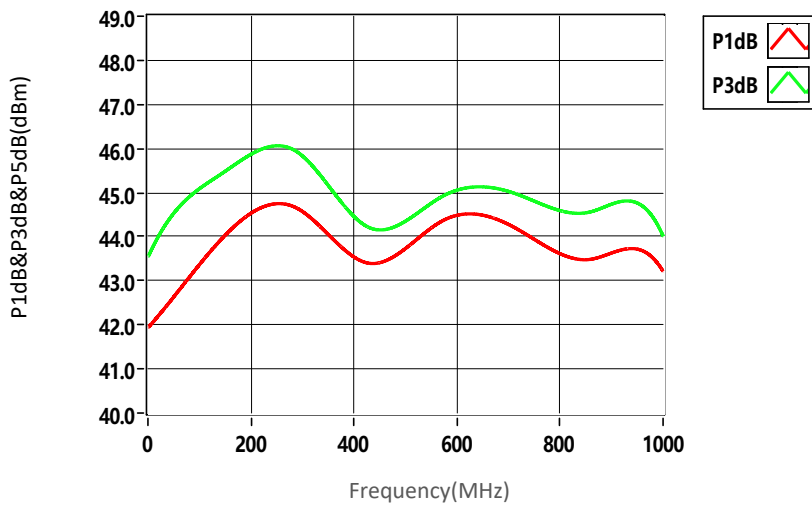
Gain vs Frequency



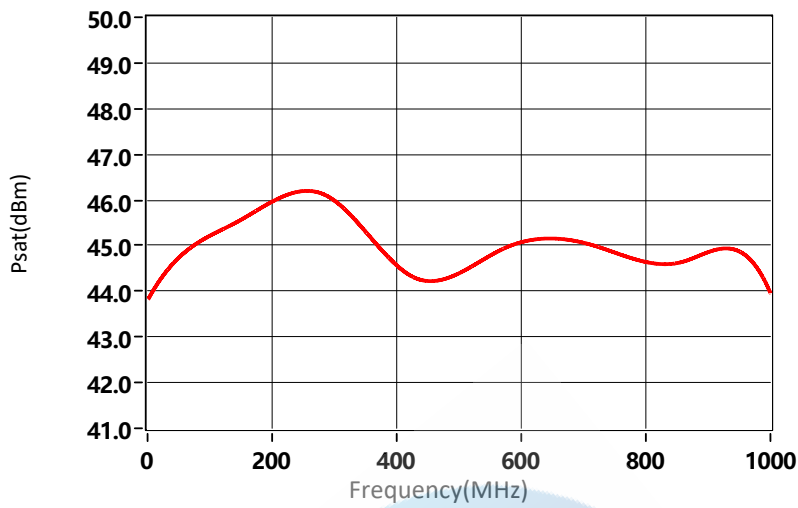
Gain vs Output Power



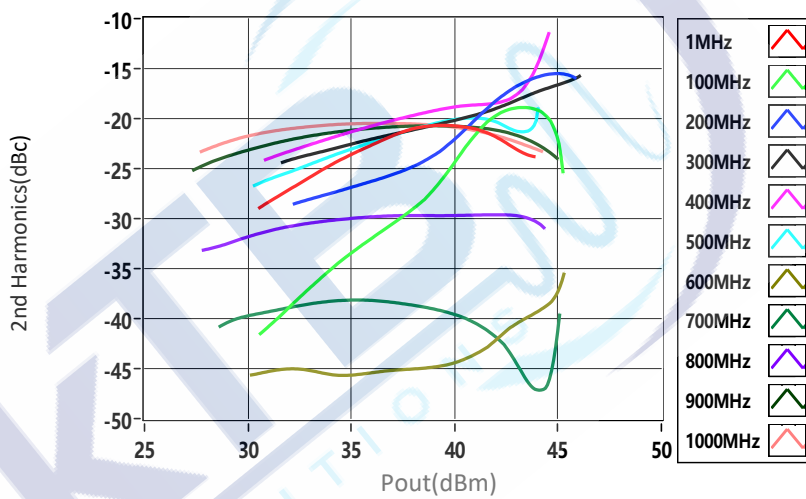
P1dB&P3dB&P5dB vs Frequency



Psat vs Frequency



2nd Harmonics vs Output Power



3rd Harmonics vs Output Power

