

### Typical Key Parameters at 23°C

Parameters	Unit	Minimum	Typical	Maximum	Notes
Frequency	GHz	2.0	-	18.0	Customizable
Gain	dB	72	80	-	Customizable
Gain Flatness	dB	-	±2.5	±2.5	Customizable
In/Out VSWR	-	-	2.0:1	2.0:1	Customizable
Psat	dBm	+17	+20	-	Customizable
DC Power	V@mA	+11	+12	+16	@550mA
Input Power	dBm	-50	-	+10	-
Two-tone ratio	dBc	-5	±15	+5	6 dB ratio@6GHz
Noise Figure	dB	-	3.0	7.0	Customizable
Outline/Package	-	-	-	-	D6+D6

Parameters	Unit	Minimum	Maximum	Notes
Operating Temperature (Case)	°C	-54	+85	95% humidity, non-condensing
Storage Temperature (Case)	°C	-54	+115	95% humidity, non-condensing
RF Input Power	dBm	-	+20	CW
Die Junction Temp (Tj)	°C	-	+150	For GaAs devices
Positive Supply Voltage	V	-	+16	At +V DC terminal
Negative Voltage	V	-	-10	Reverse Voltage

### Product Features

- Frequency Range = 2.0 to 18 GHz
- Typical Noise Figure < 4 dB
- Gain = 80 dB
- Gain Flatness < ±2.5 dB
- Typical Output Power (Psat) = +20 dBm
- Low Harmonic Distortion with 2-tone input signals up to +10 dBm
- State-of-the-Art PHEMT Technology
- MIL-883, MIL-45208 construction and reliability
- Internal DC regulator

### Product Description

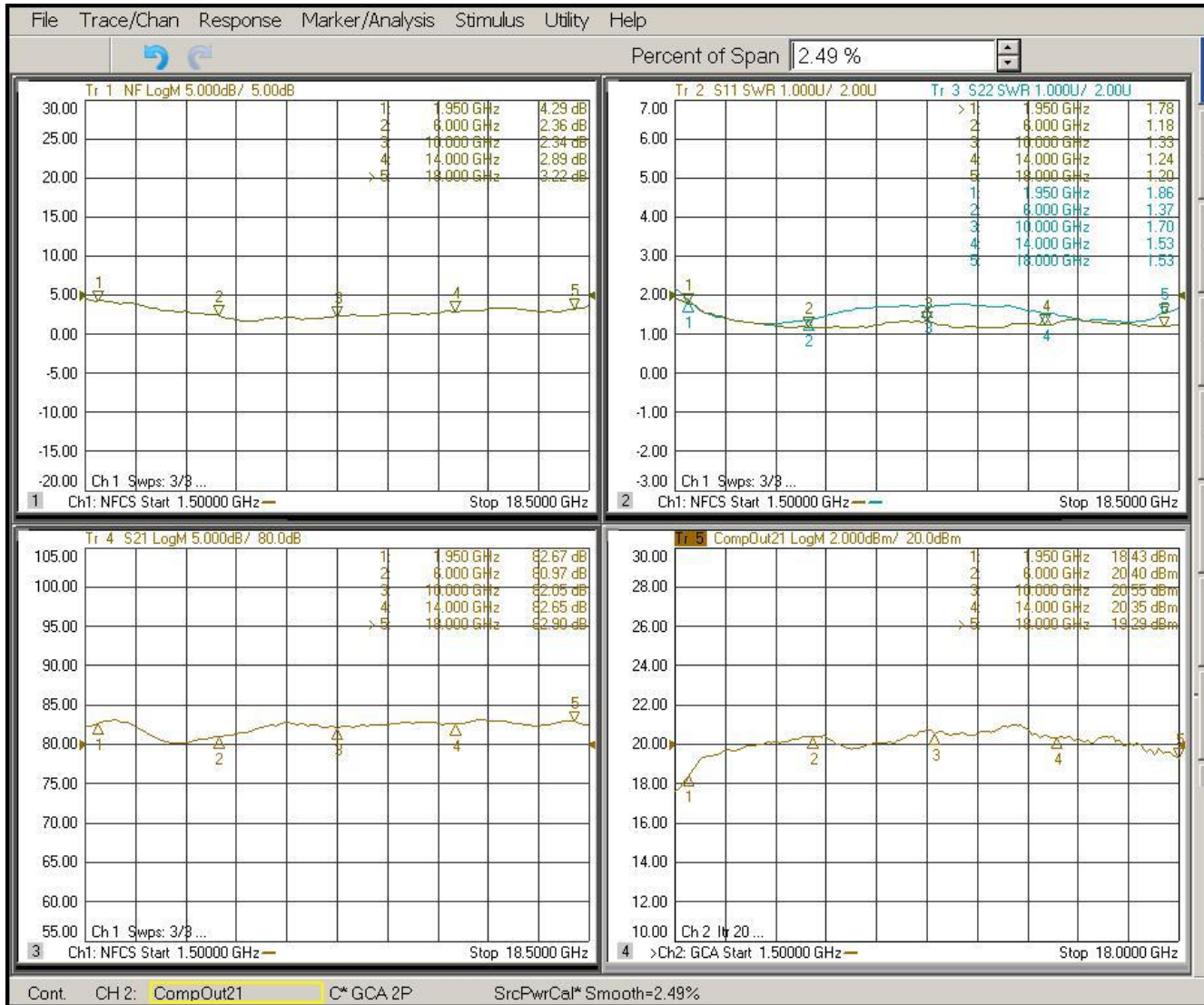
This is a wideband, high gain medium power limiting amplifier with +20 dBm saturated output power. It is designed mainly for IFM EW airborne application where multiple signals are present at the input and low harmonic distortion is required to preserve the two-tone ratio at output under limiting conditions. The input signals can be as large as +10 dBm..

### Applications

- Receiver Front End
- Radar
- Satellite Communication (SATCOM)
- Microwave Radio System
- Telemetry
- Portable SATCOM appliance

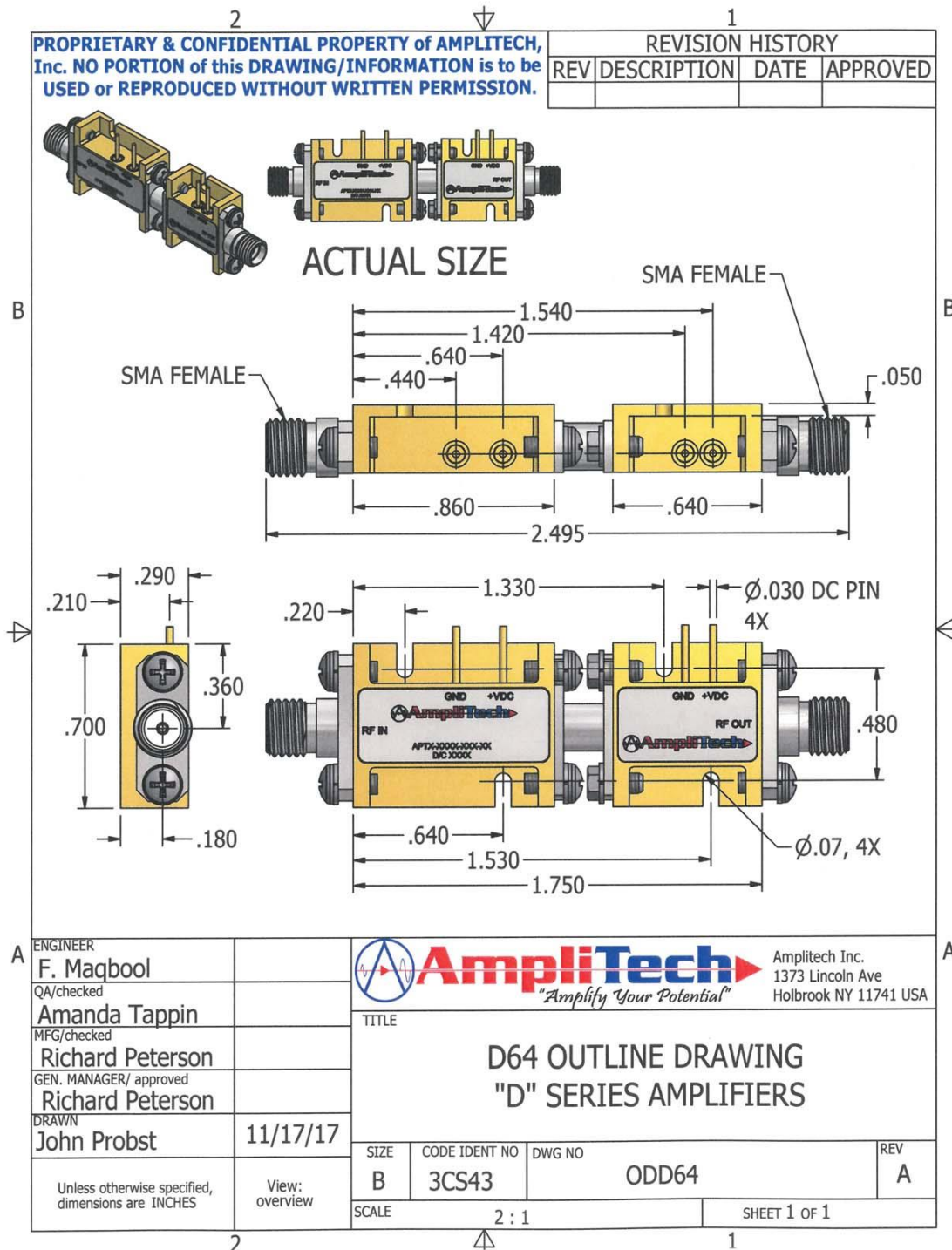
*\* Stresses above those listed under "Absolute Maximum Rating" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability. All STANDARD units are packaged in Aluminum housings that are layered with electroless Nickel and then plated with Gold to eliminate contamination of other adjacent electronic components.*

**Typical Measured Data**



Data taken with Agilent N5242 PNA-X Vector Network Analyzer

Outline Drawing



**Note:** Custom outline options available