

DESCRIPTION

The TAMP6000-15 is a Laboratory-quality, RF Amplifier with flat gain of 15dB from 100MHz to 6GHz. The power at 1dB compression is +18dB at 2GHz.

The TAMP6000-15 is the smallest USB powered amplifier available and is also priced significantly below the current market offerings.

The TAMP6000-15 applications include IF or RF buffer amplifiers for use at ATE systems using the other products in the Telemakus range.

The USB power supply is conditioned to remove noise and transients allowing the amplifier to be used with the signal source with little impact to phase noise.

Note: This product does not contain flash memory and therefore does not enumerate like other Telemakus products. The USB port is used for power only and no control functionality is available.

TAMP6000-15

Rev 1 Jul 2011
Preliminary

BENEFITS

15dB Gain

USB Powered

100MHz to 6GHz

FEATURES

1dB CW +18dBm

IP3 +34dBm @ 2GHz

Reverse isolation -17dB



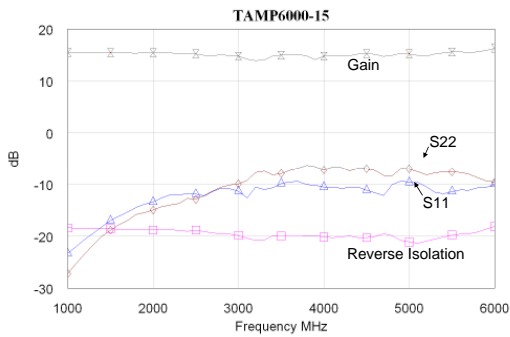
Actual Size



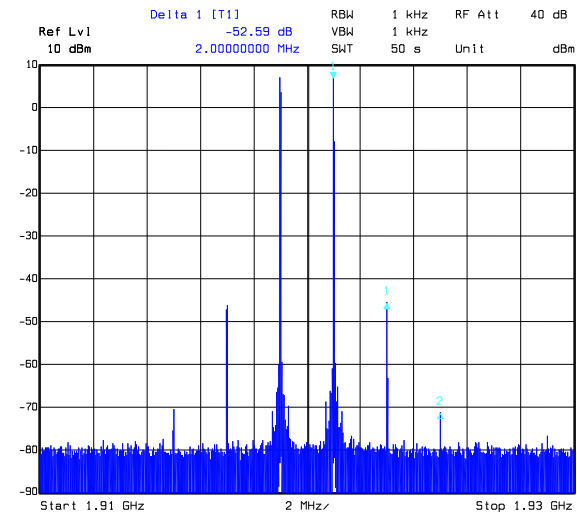
RF DESIGN SERVICES

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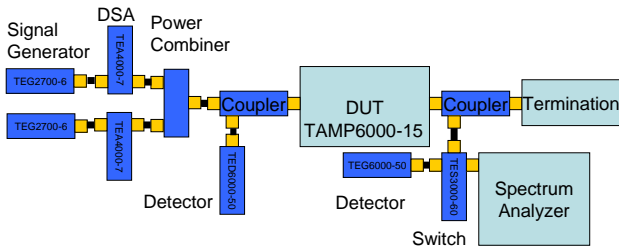
Primary Business Address
13405 Folsom Blvd #502
F O L S O M
C A , 9 5 6 3 0



Small Signal performance



Two Tone Plot @ +8dBm/toner



Test Set up with TEG2700-6 Signal sources



TAMP6000-15

Rev I Jul 11
 Preliminary

Ordering information

Model	Frequency	Max Input	Gain
TAMP6000-15	100-6000MHz	+23dBm	+15dB Typ
TAMP500-20	1-500MHz	+23dBm	+15dB Typ

Specifications

Parameter	Specification
Freq Range	100MHz to 6GHz
Gain	15dB @ 4GHz Typ
Interface	USB 2.0 (DC only)
Current	100mA @ 5V Vbus(USB)
High IP3	+34dBm @ 2GHz
Reverse Isolation	-17dB
PI dB	19dBm @ 2GHz Typ
Noise Figure	5dB @ 3GHz
Input Return Loss	-10dB @ 3GHz
RF In Connector	SMA Male
RF Out Connector	SMA Female
USB Connector	Mini A

Environmental

Temperature Range	-40 to +55 degC		
Not Environmentally sealed			

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