



TAMP6

6 Input Amplifier

SITUATION

DBS signals need amplification to a constant level for multiple distribution locations.

SOLUTION

Model **TAMP 6** provides an automatic gain controlled output that is user adjustable from **-15 dBm** to **-24 dBm @ 2150 MHz**. Slope is field selected to either **12 dB** or **8 dB**.

At the minimum output setting, the LED indicators turn **Green** with an minimum input of **-52 dBm**. At the maximum output setting, the LED indicators turn **Green** with an minimum input of **-44 dBm**.

RELATED CONSIDERATIONS

Model **TAMP6-T24** includes power adaptor **PS241000A**. DC power is directed to the 18 V input for line powering of amplifiers above. Model **TAMP6-T12** includes power adaptor **PS121000A**.

FEATURES

- *Ka/Ku bandwidth*..... 250 to 2150 MHz
- *Automatic Gain* Adjustable window
- *DC & 22 kHz/DiSeQc passing* low insertion
- *Selectable Slope Pre-Emphasis*..... 8 or 12 dB
- *LED Signal Metering*..... Blinking Red, Green, Red

APPLICATION NOTES

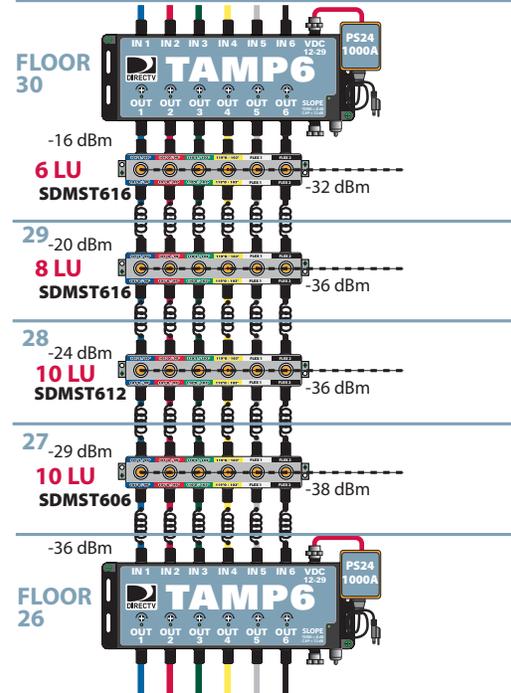
Model **TAMP 6** amplifiers are spaced at (4) floor increments when used with model **SDMST6XX** taps per floor. Automatic gain simplifies the design and installation knowing that the amplifier output is locked when with the signal level LED lights are Green.

The model **SDMST6XX** taps are used to couple signal from the trunk. The tap output is the tap value less than the trunk level at the point of insertion. Each tap adds insertion loss. An additional **TAMP 6** amplifier is added when the tap level is too low for a SWiM® multi switch.



DESCRIPTION

Indoor 250 to 2150 MHz DBS amplifier with automatic gain, adjustable output and selectable slope.



TAMP6

6 Input Amplifier

Multi-Satellite Trunk Amplifier featuring automatic gain, adjustable output, selectable slope compensation, input level detecting LED indicators and 10 to 29 VDC powering

TAMP_6R03 Trunk Amplifier

- Maximum Gain 30 dB @ 2150 MHz
- Automatic Gain Control 25 dB
- 9 dB Adjustable Output Control
- 8 / 12 dB Selectable Slope Control
- F-Connector Power Input
- Variable Color Signal Indicators

Parameter	UNIT	TAMP_6R03
System Impedance	Ohm	75
Operating Frequency Range	MHz	250 - 2150
Flatness in operating frequency	dB	± 0.5 dB over 36 MHz
ALC Output Power Level	dBm	0 dBm minimum
ALC Output Power Attenuation	dBm	9 dB variable pot
ALC Control Range	dB	24 minimum
Slope: Frequency	MHz	250 to 2150
Linearity	dB	± 1 dB away inverted from RG-6 slope
Low Setting	dB	8
High Setting	dB	12
Slope set by Terminator to a F connector		75 Ohm = Low, None = High
Noise Figure @ min ALC attenuation	dB	10 max @ 2150 MHz
Distortion (2) Tones	dBm	0 dBm composite
Output per Tone	dBm	-3 dBm
IM2 , IM3	dBc	< - 40 , < - 45
Input Level (Colored LED Indicator)		Composite Power
Red Blinking: Signal below AGC window	dBm	Input Signal < - 24
Green : Signal Inside AGC window	dBm	Input Signal @ - 24 to +1
Red : Signal is above AGC window	dBm	Input Signal > +1
Isolation Satellite to Satellite	dB	> 35 dB
Input Return Loss	dB	>10
Output Return Loss	dB	>10
Number of Inputs	Each	6 SCTE Indoor F
Number of Outputs	Each	6 SCTE Indoor F
Non harmonic spurious emissions	dBm	-80 max
DC Input Voltage	VDC	10 to 29 from SMPS Power Adaptor
DC Power pass (any Output to Input)	mA	1000 (min)
DC block on Output ports		does NOT pass DC to output ports
Max Power Consumption	W	7.5 (max.)
DC to Port 1 Input when 29V present	V	20 to 24
	mA	200 to 400
Power Supply LED	color	Green with external supply RED, coax line powered
Lightning Surge Protection		32 V p-p, max shunt current 200 A; 8 msec, 1.5 kW max dissipation
Ground Screws	Each	2 Green Screw Ground pt.
Dimensions L x W x H	inch	5.35 x 8.54 x 0.9
Environmental Requirements		Indoor Only
Operating Temperature range	°C	-34 to + 60
Storage Temperature	°C	-50 to + 85
Humidity		Shall survive 95% relative humidity over operating temperature