

The **SM7175-43** is a 7.1 to 7.5 GHz solid state GaAs FET amplifier designed for European digital video broadcast applications. The amplifier provides 58 dB of linear gain with a P1dB of +43 dBm. It is available in modular form (standard), as a lab unit or in a 19" rack mount form.

Features

- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation

Options

- Forward/Reverse Power Detection
- RF Sampling Port
- Fan
- Pulse Control for TDD applications with speeds up to 800 nsec rise/fall time
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module
- Laboratory Unit
- 19" Rack Mount



Parameter	Specification
Frequency Range	7.100 – 7.500 GHz
Pout (P1dB)	+43 dBm
Output Third Order Intercept Point (OIP3)	+54 dBm
Linear Gain	58 dB ± 2 dB
Gain Flatness (over full band)	± .75 dB
Gain Change (over temperature)	± .5 dB
Input/Output Return Loss	-16 dB / -16dB
DC Input Voltage	+12 Volts
DC Input Current	9.2 Amperes (operational)
Mechanical Dimensions (Without Heatsink)	7.50 x 3.97 x .79 inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

