

**Model 8351 Series**  
**High Power Fixed Attenuator Unit**  
*Internal Temperature Monitoring/Reporting*

**DC to 6 GHz**



**Description**

API / Weinschel's Model 8351 Series of High Power Fixed Attenuator Units offers a compact, rack mount solution to monitor up to 6 channels of API / Weinschel High Power Fixed Attenuators for bench testing, subsystem, and system applications. The standard Model 8351 Series designs operate over the DC to 6 GHz frequency range, with power handling up to 400 watts C.W. The Model 8351 Series features API / Weinschel Conduction Cooled (flat pack) Attenuators, mounted on an internal heat sink and are cooled with 2 automatic, variable speed fans based upon internal temperature monitoring. This series can be configured with front mounted Type N connectors (IN/OUT) for up to 3 channels, or front (IN) to rear (OUT) Type N for up to 6 Channels.

LabView based Attenuator Monitor Software is included for the monitoring of the internal power sensors via USB 2.0 or RS-232 communication interfaces.

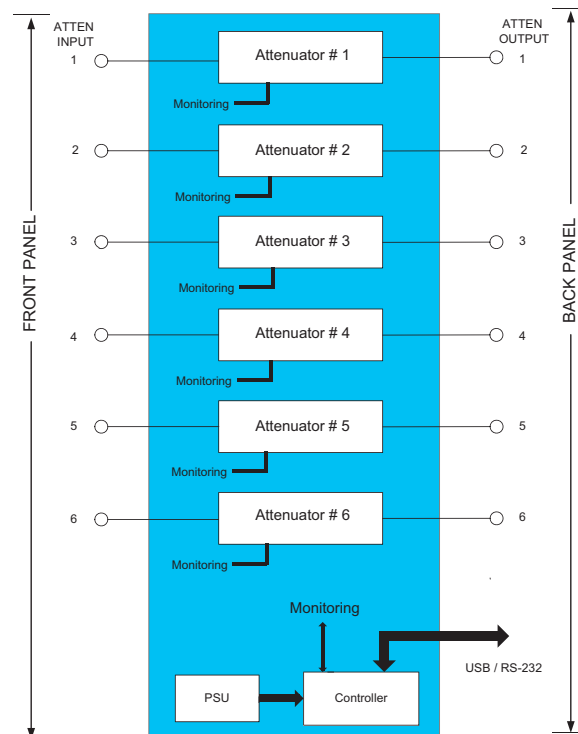
API / Weinschel also provides custom configurations where multiple dB values / high power requirements can be incorporated within a single unit. Contact us with your specialized needs.

**Features**

- /// Sensors that indicate the maximum allowed input power into each channel
- /// Thermal monitoring of each channel reported through USB 2.0 and Serial communication interface
- /// Multi-Channel fixed attenuation paths (up to 6 channels)
- /// Extremely low VSWR
- /// Frequency Range from DC to 6 GHz minimum
- /// Power Handling up to 400 watts C.W. per channel
- /// Standard communication interfaces:
  - USB 2.0
  - RS-232 (Serial)
- /// 3 light LED Front Panel status indicator
- /// LabView based Attenuator Monitor Software included
- /// Rack Configurable – Rack mount ears are supplied for a standard 19" rack configuration

**Applications**

- /// 4G LTE Base Station Testing
- /// Distributed Antenna Systems (DAS)
- /// Military Radio Testing
- /// High Power Amplifier Testing



*Simplified 6 Channel Block Diagram*

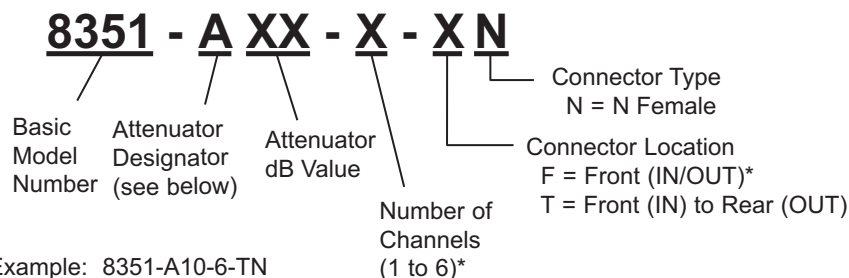
*For additional information on the Model 8351, visit our website @ [www.weinschel.apitech.com](http://www.weinschel.apitech.com)*

## Specifications

SPECIFICATION	DESCRIPTION
<b>Input Power Requirements</b>	AC 100 to 240 VAC, 50/60 Hz, 100 Watts
<b>Environmental</b>	Operating Temperature: 0° to +50°C Storage Temperature: -40° to +75°C (-40° to +167 °F ) Humidity: up to 90% (non-condensing) Operating Altitude: 10,000 ft. (3048M) Non-Operating Altitude: 40,000 ft. (12,192M)
<b>RS-232 Bus (1) Serial I/O</b>	Connector: 9-pin male D Signals: TXD, RXD, RTS, CTS, GND Baud Rates: 9600 to 230400 Data Bits: 8 Handshaking: None, RTS/CTS Parity: None
<b>USB 2.0</b>	Connector: Mini B
<b>RF Characteristics(2)</b>	Refer to Configuration Matrix (below)

1. RS-232 can be used with standard PC serial port for short and medium distances (up to approximately 50 ft).
2. Refer to Individual data sheet for detailed specifications on internal attenuators.

## Model Number Configuration Matrix



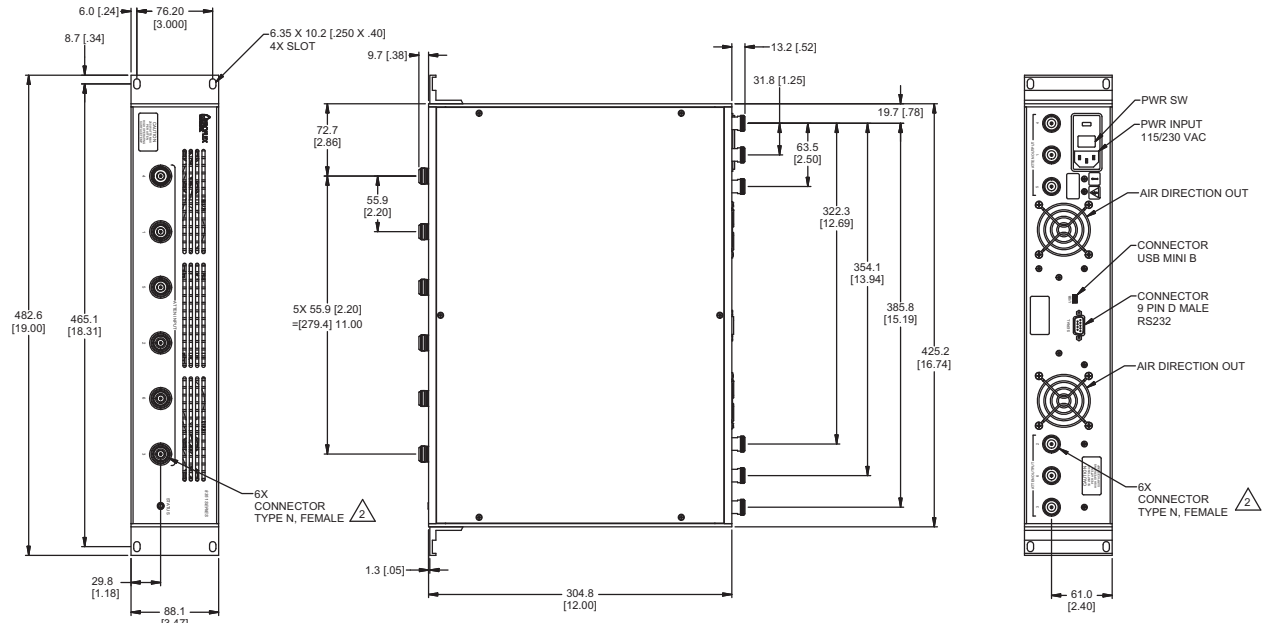
Example: 8351-A10-6-TN

\* Up to 3 Channels for Option F (Front)

Channel Specifications										
Frequency Range	Attenuator Designation	Attenuator Model	Attenuation (dB)	Deviation (±dB)	VSWR IN (maximum)		VSWR OUT (maximum)	Maximum Power** (Watt)	<input checked="" type="checkbox"/> RoHs	
					2.5 GHz	2.5-6 GHz				
DC-6 GHz	A	10 268-10-33	10	1	1.1	1.15	1.35	100	<input checked="" type="checkbox"/>	
		20 268-20-33	20	1	1.1	1.15	1.35	100	<input checked="" type="checkbox"/>	
		30 268-30-33	30	1	1.1	1.15	1.35	100	<input checked="" type="checkbox"/>	
		40 268-40-33	40	1	1.1	1.15	1.35	100	<input checked="" type="checkbox"/>	
DC-6 GHz	B	10 257-10-33	10	1	1.1	1.15	1.35	250	<input checked="" type="checkbox"/>	
		20 257-20-33	20	1	1.1	1.15	1.35	250	<input checked="" type="checkbox"/>	
		30 257-30-33	30	1	1.1	1.15	1.35	250	<input checked="" type="checkbox"/>	
		40 257-40-33	40	1	1.1	1.15	1.35	250	<input checked="" type="checkbox"/>	
DC-6 GHz	C	10 258-10-33	10	1.50	1.1	1.15	1.35	400	<input checked="" type="checkbox"/>	
		20 258-20-33	20	1.50	1.1	1.15	1.35	400	<input checked="" type="checkbox"/>	
		30 258-30-33	30	1.75	1.1	1.15	1.35	400	<input checked="" type="checkbox"/>	
		40 258-40-33	40	1.75	1.1	1.15	1.35	400	<input checked="" type="checkbox"/>	

**RoHs** compliance dependent upon attenuator installed.

\*\* Maximum Input Power is derated in certain cases, depending upon the ambient temperature and the number of active channels.



**NOTE:**

1. All dimensions are given in mm (inches).
2. Connectors and hole plugs are installed as required and are determined by the number of channels in the unit. 6 channel shown.
3. Connector location (Front/Rear) may vary depending upon the Model ordered.