

## DATA SHEET

### Model SC30 Attenuator

Description: The Model SC30 is a power attenuator for use with the Signalcrafters Model 110 Frequency Selective Voltmeter.

Two standard versions are available:

- The Model SC30-4200 is used for making “bridged” measurements from 50Ω to 600Ω and has 42 dB of attenuation.
- The Model SC30-4050 is used for making “loaded” measurements of 50Ω and has 40 dB of attenuation.

Other configurations are available upon request.

**Caution:** Do not exceed the maximum input listed in the below specifications. The Model SC30-4050 may become hot during normal use, exercise caution.

**Safety:** Before using this device refer to section 2.0 - “Safety Information” in the Model 110 manual.

**Operation:** Setting up and using the Model SC30 Attenuator with the Model 110 is quick and easy. (For detailed Model 110 operating instructions, refer to the manual sections, appearing in parenthesis, after each instruction)

#### For the Model SC30-4200:

- Connect the attenuator to the unbalanced “Low Level BNC Input” (4.7).
- Set the Input Impedance (Input Z) to “High Z” (4.13).
- Enter the Bridge Impedance (Bridge Z) of your source/device under test (4.5).
- Enter 42 dB as an external attenuation value (6.2).
- Perform your measurement, the meter will directly display the source/device’s value in dBm or Vrms, as selected (4.6).

#### For the Model SC30-4050:

- Connect the attenuator to the unbalanced “Low Level BNC Input” (4.7).
- Set the Input Impedance (Input Z) to 50Ω (4.13) (4.5).
- Enter 40 dB as an external attenuation value (6.2).
- Perform your measurement, the meter will directly display the source/device’s value in dBm or Vrms, as selected (4.6).

#### SPECIFICATIONS:

Model SC30-4200 (for making “bridged” measurements from 50 Ω to 600 Ω)

Attenuation: 42 dB, ± 0.25 dB

Input Impedance: ≥ 22k Ω

Max Input: 240 Vrms, 340 Vp

Model SC30-4050 (for making a “loaded” measurement on a 50 Ω source)

Attenuation: 40 dB, ± 1.5 dB

Input Impedance: 50 Ω

Max Input: 40 dBm, 31.62 Vrms, 44.72 Vp

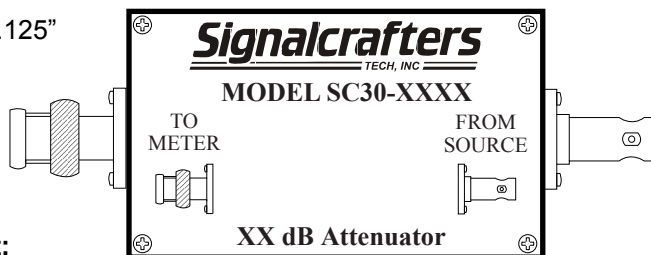
**Caution:** This unit may become hot during normal use, exercise caution.

Dimensions: (L)3.875” x (W)1.376” x (H)1.125”

#### Part Number Designation:

SC30-XXXX

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Attenuation I/O Impedance



#### For customer service and technical support:

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