Adjustable Attenuator Parameter Settings

Overview

In Atten mode, the attenuation level of the signal can be adjusted from 0 to 120 dB in increments of 0. This device is designed to precisely adjust RF signal levels in 1dB steps, making it suitable for various testing and system integration applications. It features a compact size. We, Adaura Technologies, 3017 Douglas Boulevard, Suite 300, Roseville CA 95661, declare in our sole responsibility that the following product does not contain six hazardous substances in RoHS compliance. The device is fully programmable; however, simple manual operation is also available using front panel. The attenuator is a control component, the main function of which is to reduce the strength of the signal passing through it. Say we now add a 6 dB pad between.

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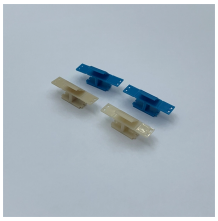
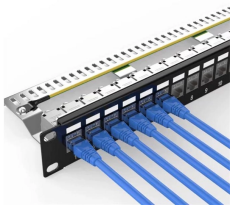
	In UserAtten Mode, the user may set parameters such as step size (StpSize), update mode (Update), and minimum attenuation (AbsMin). The scale can be adjusted using the base ...
	The output can be reduced -by adjusting the attenuator; the actual voltage at any attenuator setting is the indicated number of db below the original calibrating value.
	There are five common attenuator topologies used in microwave circuits, the tee, the pi, the bridged tee, the reflection attenuator and the balanced attenuator.
	The following table outlines the typical technical parameters for the SMA Adjustable RF Signal Attenuator. Specific values may vary slightly depending on the exact model variant (e.g., 2W, 5W, ...
	Entering a single attenuation amount will set all channels to that amount. Meanwhile, specifying attenuation levels for each channel in a multi-channel device will set each channel to the specified ...

Use the Attenuator Setup dialog to specify attenuation introduced by an external device in your test setup. This allows FlexDCA to report measurement values as if the measurements were made ...

When the attenuator powers up, the five control bits are set to whatever data is present on the five data inputs (C1 to C16). This allows any one of the 32 attenuation settings to be specified as the power-up ...

Passive attenuators use resistor networks for signal reduction without power, while active attenuators can include components like MOSFETs and PIN diodes for adjustable attenuation levels.

Typical voltage control attenuators can provide attenuation from a minimum of a few dB to a maximum of as much as 50 dB. Unlike the digital attenuator, this attenuation range is a continuous function of VC, ...

From the key functional perspective, attenuators can be classified as fixed attenuators with an unchanging level of attenuation and variable attenuators with an adjustable level of attenuation.

Understand RF attenuator specifications & parameters so that the correct electronic components are selected for any RF circuit design or system.

Contact Us

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