



Power the Ice Quake System from your coax cable using a Bias Tee

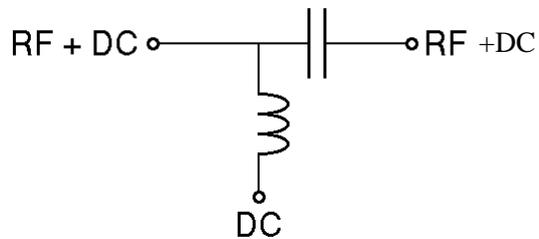
No more expensive and time consuming electrical runs to the antenna to power the De-Icing System. The Ice Quake System for a 0.60 to a 2.1 meter antenna operates off of 24VAC or 24VDC at only 35 watts of power (50 watts of power with heated feed horn cover). The power for the Ice Quake System can be run down the coax cable to a Bias Tee located at the antenna where the RF would continue to the BUC or LNB and the 35 watts of power would be available to operate the Ice Quake System.

A bias tee is used to insert DC power into an AC Signal to power remote antenna amplifiers or other devices. It is usually positioned at the receiving end of the coaxial cable to pass DC power from an external source to the coaxial cable running to powered device. A bias "T" consists of a feed inductor to deliver DC to a connector on the device side and a blocking capacitor to keep DC from passing through to the receiver. The RF signal is connected directly from one connector to the other with only the blocking capacitor in series. The internal blocking diode prevents damage to the bias "T" if reverse supply voltage is applied.

Biasing for photodiodes (vacuum and solid state), Micro-channel plate detectors, transistors and triodes. High frequencies are not leaking into a common power supply rail and noise from the power supply does not appear on the signal line. Bias "T" has been used in a variety of applications, but is generally used to provide an RF signal and power to a remote device where running two separate cables would not be advantageous. Examples of this are: Power over Ethernet active antennas, low-noise amplifiers, and down converters.



Example of the Bias Tee Device



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