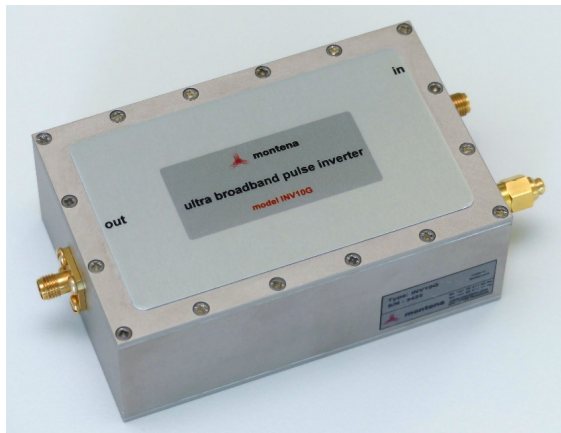




**montena**

## **Ultra Broadband Pulse Inverter**



Our broadband inverter is a transformer with a 1:1 ratio which provides a signal with 180° shift compared to the input. In other words, the output signal is the exact negative image of the input signal. Compared to active electronic devices, our transformer can convert signals of very high amplitude and it does not require any power supply because it is fully passive. Due to its very low frequency limit of 200 Hz, rectangular signals are much less distorted than competitive products. The noise is very low and the dynamic is extremely high. Special care has been taken concerning the shielding effectiveness of the device which enables measurement in highly disturbed environment such as field of 500 kV/m (MIL-Std 461G / RS105). Typical applications are: analogue signal processing, balun design, laboratory measurement in a disturbed environment.

### **SPECIFICATIONS**

Type	INV10G
Frequency range	500 Hz - 5 GHz (+0 / -3 dB) 200 Hz - 10 GHz (+0 / -6 dB)
Rise / fall time	about 35 ps
Impedance	50 ohm
Phase shift	180 degrees
Turn ratio	1 : 1
Return loss (in and out ports)	> 15 dB (< 2 GHz) > 10 dB (< 10 GHz)
Maximum input power	10 W
Maximum input voltage	1 kV (100 ns pulse)
Connectors	SMA female
Dimensions (without connectors)	99 x 64 x 36 mm (L x W x H)
Weight	330 g