

Passive Integrator



The ITR1U2-A passive integrator is designed to be used with derivative sensors, such as field and current probes, for the measurement of fast pulsed signals. Connected to this type of sensors, the passive integrator produces an overall flat response without the drawbacks of the numerical integration. The output of the passive integrator shall be connected directly to the high impedance input of a fast rise time oscilloscope or of a 1 M Ω to 50 Ω impedance converter.

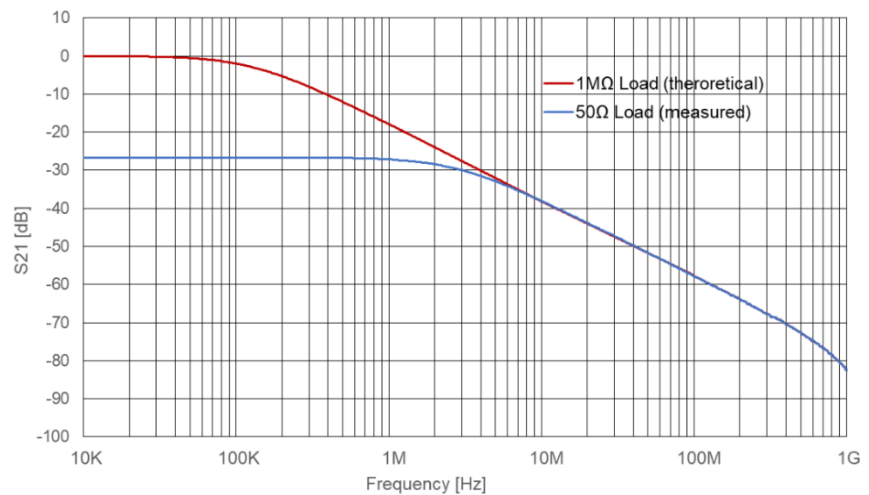
SPECIFICATIONS

Type	ITR1U2-A
Time constant	1.2 μ s
Frequency limit	1 GHz
Source impedance	50 Ω
Peak maximum input	1 kV (100 ns pulse)
Load impedance	>10 k Ω (typ. 1 M Ω)
Input connector	N (female)
Output connector	BNC (male)
Dimensions	63 x 18 x 18 mm
Weight	65 g

Other time constants available on request

Typical performance

S21 vs. Frequency



Ordering information

TYPE	DESCRIPTION
ITR1U2-A	Passive integrator, T = 1.2 μ s, up to 1 GHz, connectors : N - BNC