

Passive Integrators



Passive integrators are designed to be used with derivative sensors, such as field or 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 measurement device or to a 1 M Ω to 50 Ω impedance adapter such as montena IA1M-50.

SPECIFICATIONS

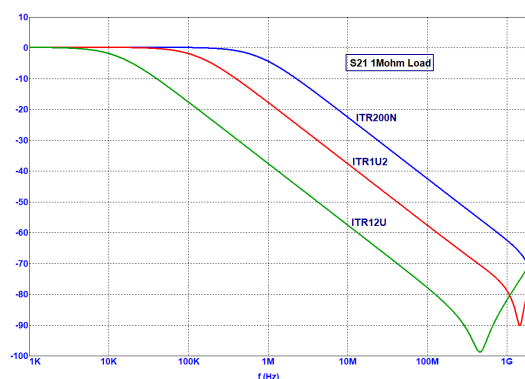
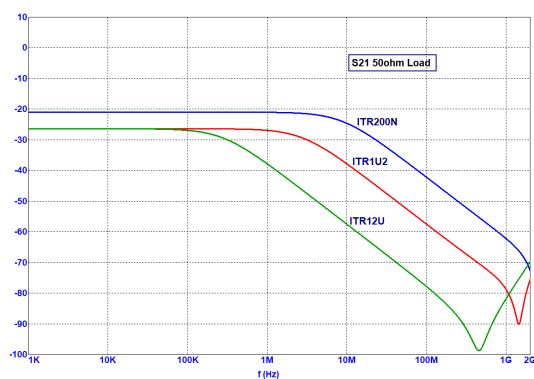
Type	ITR200N	ITR1U2	ITR12U
Time constant	200 ns	1.2 μ s	12 μ s
Cut-off frequency	1.4 GHz	1 GHz	200 MHz
Input impedance	50 Ω		
Peak maximum input	1 kV (100 ns pulse)		
Output loading	>10 k Ω (recommended connection to the oscilloscope's 1 M Ω input)		
Input / output connectors	-A model : N / BNC	-S model: SMA / SMA	
Dimensions	-A model (N / BNC) : 63 x 18 x 18 mm		-S model (SMA) : 47 x 18 x 18 mm
Weight	65 g		

Other time constants available on request.

Typical performances

S21 on a 50 Ω load

S21 on a 1 M Ω load



Ordering information

TYPE	DESCRIPTION
ITR200N-A	Passive integrator, T = 200 ns, up to 1.4 GHz, connectors: N(f) - BNC
ITR200N-S	Passive integrator, T = 200 ns, up to 1.4 GHz, SMA(f) – SMA(m)
ITR1U2-A	Passive integrator, T = 1.2 μ s, up to 1 GHz, connectors: N(f) - BNC
ITR1U2-S	Passive integrator, T = 1.2 μ s, up to 1 GHz, SMA(f) – SMA(m)
ITR12U-A	Passive integrator, T = 12 μ s, up to 200 MHz, connectors: N(f) - BNC
ITR12U-S	Passive integrator, T = 12 μ s, up to 200 MHz, SMA(f) – SMA(m)

Sales Partner:



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Covering sales in North America
United States, Mexico, & Canada

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Related products / accessories

TYPE	DESCRIPTION
IA1M-50	Impedance adapter 1 Mohm -> 50 ohm, on battery, DC – 650 MHz, BNC - SMA connectors, with charger (110-240V)
SGE1G	Ground plane D-dot field sensor (E-field), Aeq $1 \times 10^{-2} \text{ m}^2$, up to 1 GHz, SMA connector
SGE3-5G	Ground plane D-dot field sensor (E-field), Aeq $1 \times 10^{-3} \text{ m}^2$, up to 3.5 GHz, SMA connector
SGM2G	Ground plane B-dot field sensor (B-field), Aeq $1.1 \times 10^{-4} \text{ m}^2$, up to 2 GHz, SMA connector
SFE1G	Free space D-dot field sensor (E-field), Aeq $2 \times 10^{-2} \text{ m}^2$, up to 1 GHz, 2 x SMA(m) connectors
SFE3-5G	Free space D-dot field sensor (E-field), Aeq $2 \times 10^{-3} \text{ m}^2$, up to 3.5 GHz, 2 x SMA(m) connectors
SFM2G	Free space B-dot field sensor (B-field), Aeq $2.2 \times 10^{-4} \text{ m}^2$, up to 2 GHz, 2 x SMA(m) connectors
BL3-5G	Balun for free space field sensors, 500 Hz - 3.5 GHz, 3 x SMA(f) conn.
BL10G	Balun for free space field sensors, 100 kHz - 10 GHz, 3 x SMA(f) conn.
Cx-yz	Highly shielded semirigid coaxial cables, for field / current or voltage sensors. Where: x = cable length : 0.1, 1, 3, 5, 10 or 15 m y = connector 1 : code S for SMA(m), N for Type-N(m) z = connector 2 : code S for SMA(m), N for Type-N(m) or B for BNC(m)
PULSELab	Pulse measurement and processing software application, Life-time license for installation on one PC



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