

ColorConnect™ Precision Attenuators

DATA SHEET / 2R-020



ColorConnect™ Precision Attenuators

AT-SERIES



AT-185-01-06



AT-24-01-03



AT-292-01-03



AT-SMA-02-03

AT-Series Attenuators

Features

- > Fixed Coaxial Attenuators
- > Precision 1.85mm, 2.4mm, 2.92mm & SMA Male/Female Connectors
- > Color Coded For Easy Identification

Description

Maury Microwave's AT-series of fixed coaxial attenuators are used to reduce the power of a RF, MW or mmW signal without distorting its signal quality/waveform. Attenuators are often used to lower the amplitude of a signal to a measurable level or to protect a measurement instrument from damage. Attenuators are also used to improve matching between components by improving the return loss (twice insertion loss) and effectively reducing the VSWR seen by adjacent components. Key attenuator parameters include attenuation, frequency bandwidth, power handling, VSWR and quality/ repeatability of connector.

ColorConnect™ Color Coding

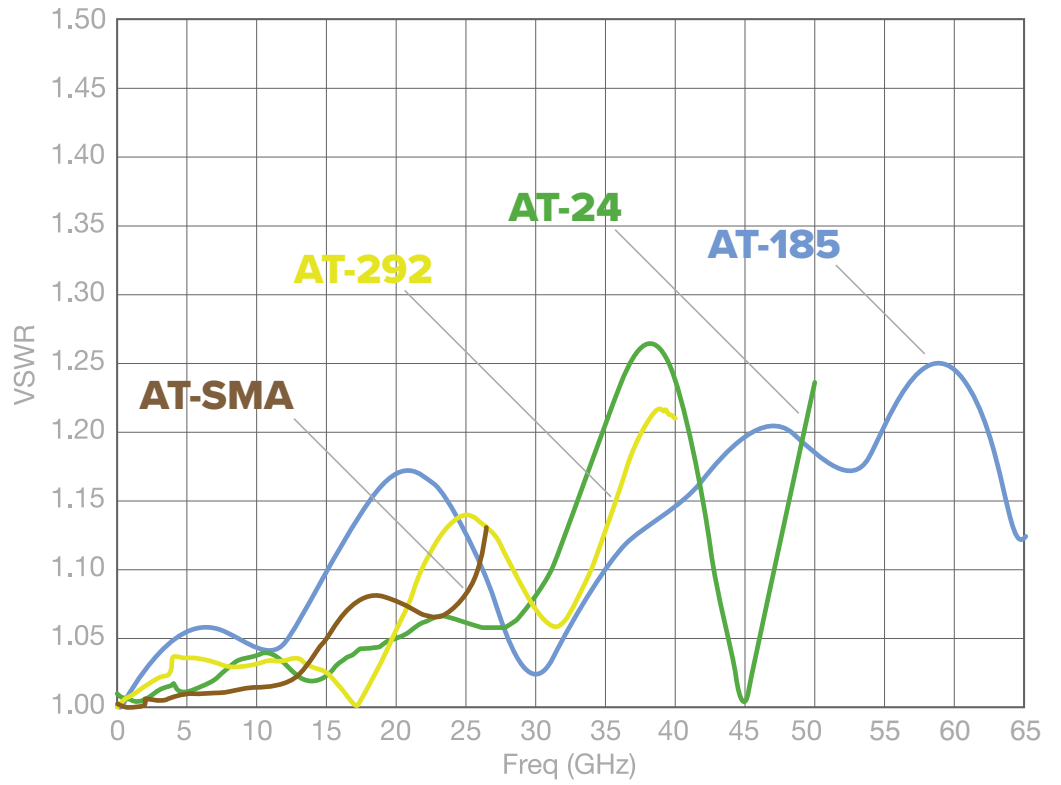
Maury AT-Series attenuators are part of the ColorConnect™ family. Following the proposed IEEE high-frequency connector/adaptor color convention, AT-Series attenuators are the first commercially available attenuators to offer clear indications of compatibility and intermatability. ColorConnect™ makes it a simple matter to avoid and eliminate damaged equipment, degraded equipment reliability, degraded performance and lengthy maintenance times due to improper mating (and attempted mating) of incompatible interconnects.

Available Models

Model	Connector 1	Connector 2	Frequency Range	Power Handling (W)	Attenuation (dB)	VSWR (typical)	VSWR (max)
AT-SMA-02-01	SMA male	SMA female	DC – 26.5	2	1	See graph	DC-18 GHz 1.35:1 18-26.5 GHz 1.50:1
AT-SMA-02-03					3		
AT-SMA-02-06					6		
AT-SMA-02-10					10		
AT-SMA-02-20					20		
AT-292-01-01	2.92mm male	2.92mm female	DC – 40	2	1		DC-18 GHz 1.30:1 18-40 GHz 1.40:1
AT-292-01-03					3		
AT-292-01-06					6		
AT-292-01-10					10		
AT-292-01-20					20		
AT-24-01-01	2.4mm male	2.4mm female	DC – 50	1	1		DC-26.5 GHz 1.35:1 26.5-40 GHz 1.60:1 40-50 GHz 1.75:1
AT-24-01-03					3		
AT-24-01-06					6		
AT-24-01-10					10		
AT-24-01-20					20		
AT-185-01-01	1.85mm male	1.85mm female	DC – 65	1	1	DC-26.5 GHz 1.35:1 26.5-40 GHz 1.55:1 40-65 GHz 1.65:1	
AT-185-01-03					3		
AT-185-01-06					6		
AT-185-01-10					10		
AT-185-01-20					20		

ColorConnect™ Precision Attenuators Typical VSWR

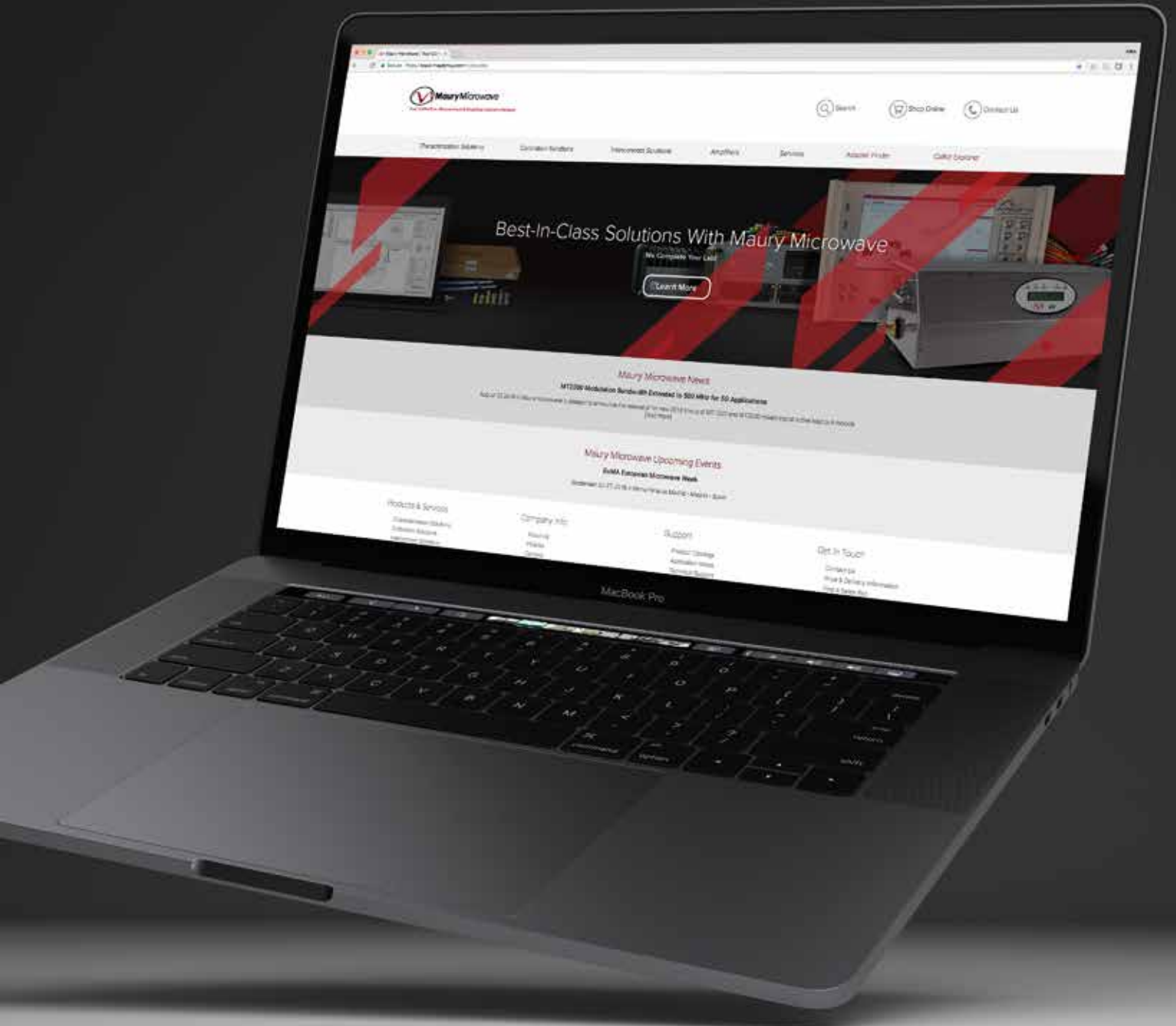
AT-SMA, AT-292, AT-24 and AT-185



Legend for the graph:

- AT-SMA (Brown)
- AT-292 (Yellow)
- AT-24 (Green)
- AT-185 (Blue)

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