

RCS/ISAR Measurement Interface 581960 (9610-00)

FESTO

LabVolt Series

Datasheet



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Table of Contents

General Description	3
Specifications	3

General Description

The RCS/ISAR Measurement Interface contains additional RF circuitry that allows RCS and ISAR measurements to be performed using the Basic Radar Training System. This RF circuitry also allows the Basic Radar Training System to be converted into a synthetic aperture radar (SAR). The additional RF circuitry in the RCS/ISAR Measurement Interface consists of a time-gated, variable-gain amplifier; a circulator; and two limiters. The time-gated, variable-gain amplifier increases the peak RF power transmitted. It also maintains the average RF power transmitted to a level that allows the system to be operated safely in a classroom laboratory. The circulator is used for simultaneous transmission and reception using the same antenna. The limiters prevent saturation in the I and Q channels of the receiving section of the system (i.e., the Radar Receiver and the Dual-Channel Sampler).

* **WARNING:** This equipment is subject to export control. Please contact your sales representative to know if this product can be imported in your region.

Specifications

Parameter	Value
Frequency Range	8 to 10 GHz
RF Amplifier	
Maximum Gain	22 dB
On Time per Pulse	~150 ns
Limiters	
Type	Diodes
Voltage Limits	±1 V
RF Input and Output Impedance	50 Ω
Sync. Input	TTL
Physical Characteristics	
Dimensions (H x W x D)	112 x 330 x 300 mm (4.4 x 13.0 x 11.8 in)
Net Weight	3.2 kg (7.1 lb)

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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