

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Keysight / Agilent 355C* at our website: ***Click HERE***

Agilent 355C/D

VHF Attenuators dc to 1 GHz

Data Sheet



Features and applications

- Broad frequency coverage, dc to 1000 megahertz
- Low insertion loss
- Low SWR and negligible leakage

- Measure gain, attenuation, frequency response
- Broaden usefulness of present equipment
- Calibrate signal sources

Description

Precision attenuation from dc to1000 MHz is available with these attenuators. Model 355C provides 0 to 12 dB in 1-dB steps and Model 355D provides 0 to 120 dB in 10-dB steps. Standard 355C's and D's are equipped with BNC connectors. Units can be coupled together with a standard UG-491A/U male-to-male BNC adapter. Option 001 Type N connector 355's are ideally suited for applications such as receiver testing where minimum leakage is important. Option 001 355's may be coupled together with the 1250-0778 Type N male-to-male adapter (UG-57B/U). Using the 355C and 355D in series provides precision, the attenuation in 1-dB steps from 0 to 132 dB. Also, these attenuators may be connected with either terminal as input or output.

Basic design

A departure from the usual attenuator design has resulted in an accurate, compact, and rugged attenuator with low insertion loss and low SWR. Error is reduced to a minimum on all steps. Attenuator sections are inserted and removed by camactuated microswitches which keep lead lengths short. This system minimizes stray capacitances and inductances and extends the upper frequency limit of the 355 attenuators to 1000 MHz. In addition, the phase shift is kept at a minimum. Electrical length for the 355 C/D is approximately 60 cm at 0 dB (no sections engaged). For each section engaged, the electrical length decreases approximately 2 cm.

Agilent Technologies

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

In addition, the design provides a rugged, compact unit in which the component parts are rigidly positioned and well shielded so that neither stray pickup nor signal leakage is a problem. The 355 attenuators are available for either bench or panel mounting (Option 003). To enable the attenuator to be panel mounted, the shaft has been extended 0.18 in. and the casting drilled and tapped for (4) 6-32 screws. Remotely programmable units are also available under model numbers 355E and 355F.

Specifications

Model 355C

Attenuation: 12 dB in 1-dB steps.
Frequency range: DC to 1000 MHz.
Overall accuracy: ±0.1 dB at 1000 MHz;
± 0.25 dB dc, to 500 MHz; ± 0.35 dB, dc to 1000 MHz.

Model 355D

Attenuation: 120 dB in 10-dB steps.
Frequency range: DC to 1000 MHz.
Overall accuracy: ± 0.3 dB to 120 dB at 1000 Hz;
± 1.5 dB to 90 dB below 1000 MHz; ± 3 dB to 120 dB below 1000 MHz.

For both models

Impedance: 50 ohms nominal.
Power handling capability: 0.5 watt average, 350 watts peak.
Maximum SWR (input and output): 1.2 below 250 MHz;
1.3 below 500 MHz; 1.5 below 1000 MHz.
Maximum insertion loss (insertion loss at 0 dB):
0.20 dB + 2.30 dB/GHz.
Dimensions (maximum envelope, bench or panel mount):
152 x 71 x 69 mm (6 in. long, 2 13/16 in. wide, 2 11/16. high).
Weight (bench or panel mount): net, 0.7 kg (1 1/2 lb);
shipping, 1.4 kg (3 lb).
Option 001: 355C, 355D Type-N connectors
Option 003: 355C, 355D panel mounting capability
Option 005: 355C

Agilent Technologies' Test and Measurement Support, Services, and Assistance
Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

Our Promise
"Our Promise" means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage
"Your Advantage" means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra- cost upgrades, out-of-warranty repairs, and on-site education and training, as well as design, system integration, project management, and other professional services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

Get assistance with all your test and measurement needs at:
www.agilent.com/find/assist

Product specifications and descriptions in this document subject to change without notice.

Copyright © 2001
Agilent Technologies, Inc.
Printed in U.S.A. June 20, 2001
5952-0922

Agilent Technologies

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP