NARDA

757C

The Narda 757C is a high-performance coaxial fixed attenuator designed for precision RF and microwave applications, operating from DC to 12.4 GHz. It features a rugged design with Type N connectors and exhibits excellent VSWR and attenuation flatness across its entire frequency band.

SPECIFICATIONS

General

Interfaces	Type N Coaxial (1 Male, 1 Female)
Calibration Swept Data	Swept-frequency VSWR and attenuation data is supplied with each unit

Physical

Operating Temperature	-54 to +125 °C °C
Dimensions (W×H×D)	21 mm (Diameter) × 57 mm (Length) (3, 6, 10, 20 dB) / 21 mm (Diameter) × 64 mm (Length) (30, 40 dB) mm
Weight	0.071 kg (3, 6, 10, 20 dB) / 0.085 kg (30, 40 dB) kg
Housing Material	Passivated stainless steel
Connector Material	Passivated stainless steel outer conductor, gold-plated beryllium copper center contact

RF Performance

Frequency Range	DC to 12.4 GHz
Nominal Impedance	50 Ohms
Maximum VSWR (DC to 4.0 GHz)	1.15:1
Maximum VSWR (4.0 to 8.0 GHz)	1.20:1
Maximum VSWR (8.0 to 12.4 GHz)	1.25:1
Nominal Attenuation Options	3, 6, 10, 20, 30, 40 dB (option dependent)

Power Handling

Maximum Average Input Power	5 W @ 25 °C
Power Derating Threshold	Derates linearly to 1 W @ 125 °C
Maximum Peak Input Power	1 kW
Peak Power Pulse Width	5 µs
Peak Power Duty Cycle	0.05%

Mechanical

Port 1 Connector	Type N Male
Port 2 Connector	Type N Female
Design Directionality	Bidirectional

RF Specifications

Attenuation Deviation (DC to 4.0 GHz)	±0.3 dB (3, 6, 10, 20 dB) / ±0.5 dB (30 dB) / ±1.0 dB (40 dB)
Attenuation Deviation (4.0 to 8.0 GHz)	±0.3 dB (3, 6 dB) / ±0.5 dB (10, 20 dB) / ±0.8 dB (30 dB) / ±1.3 dB (40 dB)
Attenuation Deviation (8.0 to 12.4 GHz)	±0.5 dB (3, 6 dB) / ±0.7 dB (10, 20 dB) / ±1.0 dB (30 dB) / ±1.5 dB (40 dB)

Environmental

Environmental Compliance	Designed to meet MIL-A-3933 environmental specifications

TECHNOLOGY

Coaxial Thin Film

APPLICATIONS

RF Power Attenuation & Impedance Matching

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