



DAS Products

DATA SHEET

Broadband High Power Low PIM Load

LDO-D42-100-gx



- CCI's high power low PIM load support 100W across a broadband from DC to 4200 MHz
- Excellent return loss performance
- Available with 7-16 DIN, 4.3-10 and N-type Male or Female Connectors
- High reliability design
- Designed for ultra low PIM performance
- RoHS compliant

Overview

CCI's high power low PIM load covers a broad frequency range from DC to 4200 MHz, while delivering high power performance of up to 100 Watts. This load has excellent return loss performance. The unit is ideal for optimizing RF power distribution, which is often required for distributed antenna systems (DAS).

The extremely wide frequency range allows use with multiband and broadband antennas as well as leaky cable systems. The high power handling makes this load well-suited for use with wireless base stations. The load has been designed and constructed with minimal solder joints which assures the correct dissipative loss and enhances the overall reliability.

The attenuator can be configured with Male or Female, DIN 7-16, 4.3-10 or N-type connectors.

CCI filter and combiner products are designed and produced to ISO 9001 certification standards for reliability and quality at our state-of-the-art engineering and manufacturing facilities.



SPECIFICATIONS

Broadband High Power Low PIM Load

LDO-D42-100-gx

Electrical Specification

RF Parameter	
Frequency Range	DC - 4200 MHz
Return Loss	≥ 19 dB

General Characteristics	
Continuous Average Power	100 W
Impedance	50 ohms
Intermodulation Performance	<-117 dBm (-160 dBc) min; (2 × +43 dBm tones)

Environmental Specification

Operating Temperature	-25 °C to +65 °C
Ingress Protection	IP67 (Indoor or Outdoor)

Mechanical Specification

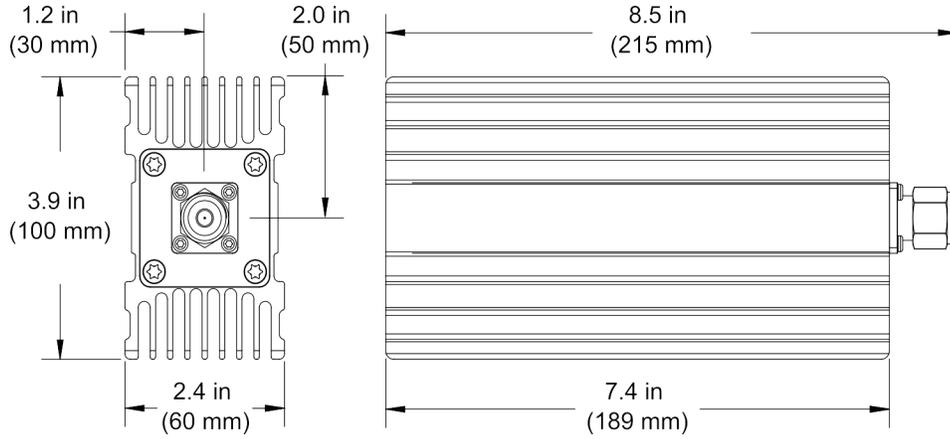
Model	LDO-D42-100-Fx or LDO-D42-100-Mx
Connectors	7-16 or 4.3-10 or N-type × 1 (Male or Female)
Body Dimensions	189 x 100.0 x 60 mm (7.4 x 3.9 x 2.4 in.)
Dimensions w/Bracket & Connector	273 x 110 x 75 mm (10.8 x 4.3 x 3.0 in.)
Weight	2.1 Kg (4.6 lbs)



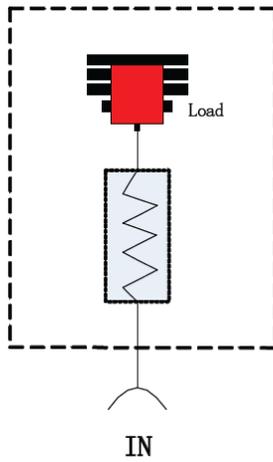
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Ultra-broadband High Power Load with Male 4.3-10 Connector Outline Drawing bracket not shown



High Power Low PIM Load Block Diagram



DAS Products

STANDARDS & CERTIFICATIONS

Broadband High Power Low PIM Load

LDO-D42-100-gx

Parts & Accessories

LDO-D42-100-M1	Ultra-broadband High Power, Low PIM 100 Watt Load with 7-16 Male Connector
LDO-D42-100-F1	Ultra-broadband High Power, Low PIM 100 Watt Load with 7-16 Female Connector
LDO-D42-100-M2	Ultra-broadband High Power, Low PIM 100 Watt Load with 4.3-10 Male Connector
LDO-D42-100-F2	Ultra-broadband High Power, Low PIM 100 Watt Load with 4.3-10 Female Connector
LDO-D42-100-M3	Ultra-broadband High Power, Low PIM 100 Watt Load with N-type Male Connector
LDO-D42-100-F3	Ultra-broadband High Power, Low PIM 100 Watt Load with N-type Female Connector

Standards & Compliance

Safety	EN 60950-1, UL 60950-1
Emission	EN 55022
Immunity	EN 55024
Environmental	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14, IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29, IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64, GR-63-CORE 4.3.1, EN 60529 IP20

Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US, ISO 9001



CCI

Communication Components Inc.

EXTENDING WIRELESS PERFORMANCE