

24-INJ Series

DC Power Injector

Features

- Low Insertion Loss
- Excellent Impedance Match
- TX/RX LED indicator
- Internal Lightning Protection
- N-Female Connectors

Picture



Description

GEM Microwave's DC Power Injectors (or known as Bias-T) provides power to remote mounted amplifier products through the antenna cable, simplifying installation. Current-sensing circuits provide remote amplifier diagnostic LEDs. In addition, these units provide effective lightning protection with multi-strike capability.

Electrical Specifications

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	2.3		2.7
Impedance	Ohm		50	
Insertion Loss (Note 1)	dB		0.6	
Return Loss	dB		18	
Gain flatness over band	dB		±1	
DC Power Supply	V	8		14
Supply Current	mA			1000
Voltage Drop (Note 2)	V			1
Transmit Indicator LED Threshold Current	mA		150	
Surge Protection		IEC 61000-4-5 Level 4		
Operating Temperature	°C	-40		+70

Note 1: @ 2437MHz

Note 2: @ 1000mA supply current.



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Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Current	2A
Supply Voltage	+15V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

Mechanical Specifications

Parameter	Unit	
LED Indicators		Green for Power On, Red for Transmit
RF Connectors		N female
DC Power Connector		DC Via 2.1mm I.D. (+), 5.5mm O.D. (-)
Chassis		Steel with hot tin-plating, rugged white coat finish
Dimensions	mm	85 x 45 x 25
Weight	kg	0.06

Guaranteed Quality

24G Series is designed and manufactured by GEM Microwave and is backed by GEM Microwave's Limited Warranty.