



# 58-INJ-1

[www.GemMicrowave.com](http://www.GemMicrowave.com)

## DC Power Injector

### Features

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

### 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		8
Impedance	Ohm		50	
Insertion Loss (Note 1)	dB		1	
Return Loss	dB		20	
Gain flatness over band	dB		±1	
DC Power Supply	V	8		28
Supply Current	mA			4000
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		+50

Note 1: @ 5500MHz

Note 2: @ 4000mA supply current.

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### Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Current	5A
Supply Voltage	+32V
Operating Temperature	-40 °C to +60 °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.