ZX85-12G-S+

Wideband 0.2 to 12000 MHz 50Ω

CASE STYLE: GC957

| Connectors | Model |
|------------|-------------|
| SMA | 7X85-12G-S+ |

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

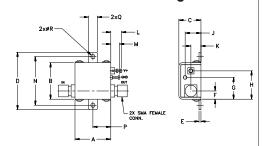
Maximum Ratings

| Operating Temperature | -55°C to 100°C |
|-----------------------------------|-----------------------------|
| Storage Temperature | -55°C to 100°C |
| RF Power | 30dBm |
| Voltage at DC port | 25V |
| DC Current | 400mA |
| DC resistance from DC to F | RF&DC port 1.8Ω |
| Permanent damage may occur if any | of these limits are exceede |

Coaxial Connections

| RF | OUT |
|-------|-----|
| RF&DC | IN |
| DC | V+ |

Outline Drawing



Outline Dimensions (inch)

| J | Н | G | F | Ε | D | С | В | Α |
|-------|-------|-------|------|------|-------|-------|-------|-------|
| .33 | .59 | .45 | .17 | .04 | 1.18 | .46 | .75 | .74 |
| 8.38 | 14.99 | 11.43 | 4.32 | 1.02 | 29.97 | 11.68 | 19.05 | 18.80 |
| wt | | R | Q | Р | N | М | L | K |
| grams | | .106 | .18 | .37 | 1.00 | .18 | .22 | .21 |
| 00 | | 0.60 | 4.57 | 0.40 | OF 40 | 4.57 | E EO | E 00 |

Features

- wideband, 0.2 to 12000 MHz
- low insertion loss, 0.6 dB typ.
- high current capability, 400 mA
- small size 0.74" x 0.75" x 0.46"
- rugged unibody construction
- protected by US patent 6,790,049

Applications

- · biasing amplifiers
- biasing of laser diodes
- · biasing of active antennas
- DC return
- DC blocking
- test accessory

Bias-Tee Electrical Specifications

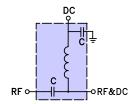
| | | EQ. Hz) | | ı | INSERTIC (d | | S* | | | | | WR* 1) | | |
|---|-----|------------|------|----------|----------------|------|-------|------|------|----------|------|-----------|------|------|
| | f | f | Time | L May | T. 100 | | Ti un | J | T | L May | | М | Ti m | U |
| H | "L | ' U | Тур. | Max. | Тур. | Max. | Тур. | Max. | Тур. | Max. | Тур. | Max. | Тур. | Max. |
| L | 0.2 | 12000 | 0.1 | 0.5 | 0.6 | 1.5 | 1.0 | 2.5 | 1.1 | 1.5 | 1.2 | 1.5 | 1.2 | 1.5 |

U=upper range (f,/2 to f,)

Typical Performance Data

| FREQUENCY (MHz) | INSERTION I with cu | | VSWR (:1) with current | | |
|--------------------|------------------------|-------|---------------------------|-------|--|
| | 0mA | 200mA | 0mA | 200mA | |
| 0.20 | 0.09 | 0.25 | 1.17 | 1.18 | |
| 700.00 | 0.52 | 0.93 | 1.10 | 1.05 | |
| 1600.00 | 1.21 | 0.65 | 1.24 | 1.25 | |
| 2400.00 | 0.84 | 1.14 | 1.14 | 1.15 | |
| 3200.00 | 0.67 | 0.76 | 1.05 | 1.06 | |
| 4000.00 | 0.76 | 0.77 | 1.07 | 1.06 | |
| 4800.00 | 0.71 | 0.81 | 1.11 | 1.10 | |
| 5600.00 | 0.66 | 0.76 | 1.10 | 1.11 | |
| 6200.00 | 0.65 | 0.73 | 1.08 | 1.11 | |
| 7000.00 | 0.69 | 0.75 | 1.07 | 1.09 | |
| 7800.00 | 0.88 | 0.80 | 1.11 | 1.09 | |
| 8600.00 | 1.11 | 1.11 | 1.11 | 1.08 | |
| 9200.00 | 1.11 | 1.15 | 1.07 | 1.07 | |
| 10000.00 | 1.21 | 1.20 | 1.02 | 1.07 | |
| 12000.00 | 1.37 | 1.39 | 1.15 | 1.11 | |

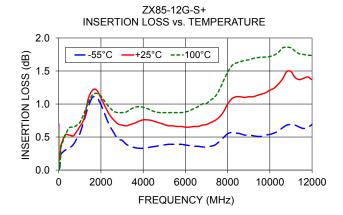
Electrical Schematic

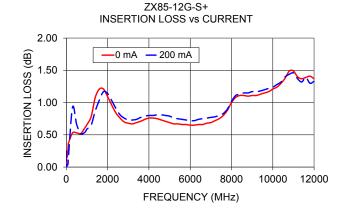


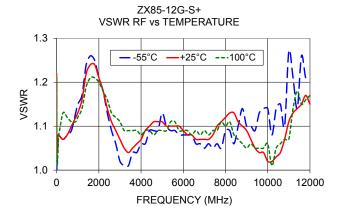
- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

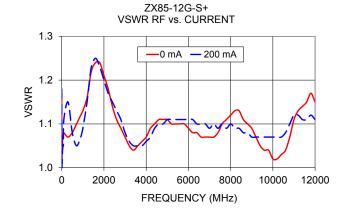
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits website at www.minicircuits.com/WCLStore/terms.jsp









Notes
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