# Coaxial **Bias-Tee**

#### 0.2 to 12000 MHz **50**Ω Wideband

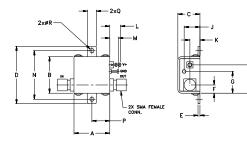
#### **Maximum Ratings**

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	RF&DC port 1.8Ω
Permanent damage may occur if an	y of these limits are exceeded.

#### **Coavial Connections**

RF	OUT
RF&DC	IN
DC	V+

### **Outline Drawing**



Outline Dimensions (inch)								
Α	В	С	D	E	F	G	н	J
.74	.75	.46	1.18	.04	.17	.45	.59	.33
18.80	19.05	11.68	29.97	1.02	4.32	11.43	14.99	8.38
к	L	м	N	Р	Q	R		wt
.21	.22	.18	1.00	.37	.18	.106		grams
5.33	5.59	4.57	25.40	9.40	4.57	2.69		23

#### 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
- · additional patent pending

#### Applications

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





CASE STYLE: GC957

Connectors	Model	Price	Qty.
SMA	ZX85-12G-S+	\$99.95 ea.	(1-9)

#### + RoHS compliant in accordance with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. There has been no change to the model's material, form, fit, or function. See our web site for RoHS Compliance methodologies and qualifications.

#### **Bias-Tee Electrical Specifications**

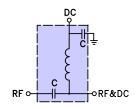
	EQ. Hz)	INSERTION LOSS* (dB)			VSWR* (:1)								
			L	Ν	Л	ı	U		L	n	N	I	J
f	f <sub>u</sub>	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.
0.2	12000	0.1	0.5	0.6	1.5	1.0	2.5	1.1	1.5	1.2	1.5	1.2	1.5
	nge(f <sub>L</sub> to 1				ange(10 f			U=uppe	er range (f <sub>u</sub> /2	2 to f <sub>u</sub> )			

Insertion Loss and VSWR are guaranteed up to 20 dBm RF power and 200mA DC current.

#### **Typical Performance Data**

.)preai : erreiniance Data								
FREQUENCY (MHz)	INSERTION I with cu		VSWR with cu					
	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				





For detailed performance specs

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engine Factor Engine F

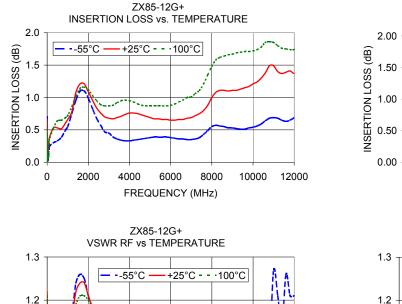
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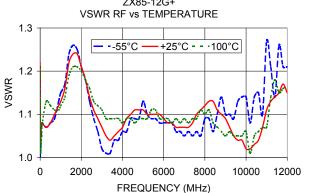
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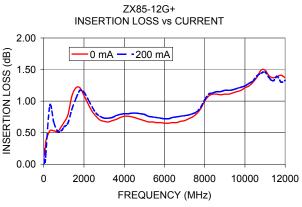
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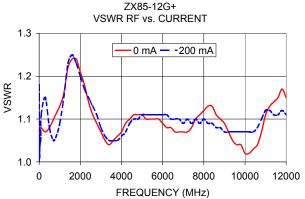
### **Performance Charts**

## **ZX85-12G+**











For detailed performance specs

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