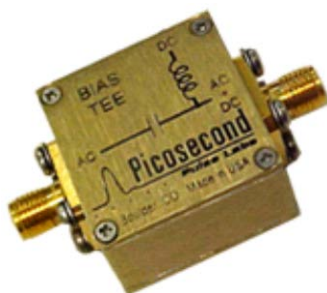


18 GHz High Current Bias Tee

PSPL5585 Datasheet



The Model PSPL5585 High Current Bias Tee is intended for frequency domain, high current applications. Unlike most high current bias tees that typically are specified for only an octave band, this bias tee can typically cover a decade. The PSPL5585, 87 and 89 High Current Bias Tee Models have overlapping bands to cover frequencies from 200 MHz to 18 GHz. The DC input is a solder terminal feed-thru capacitor.

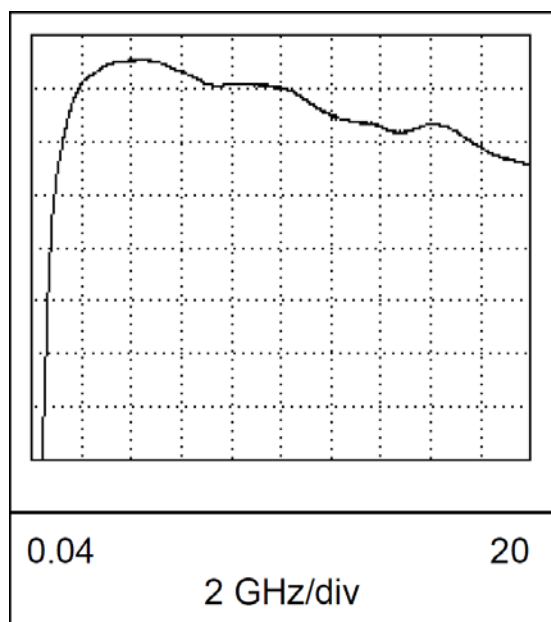
Key performance specifications

- 2 GHz to 18 GHz
- 100 V, 6 A

Microwave frequency response

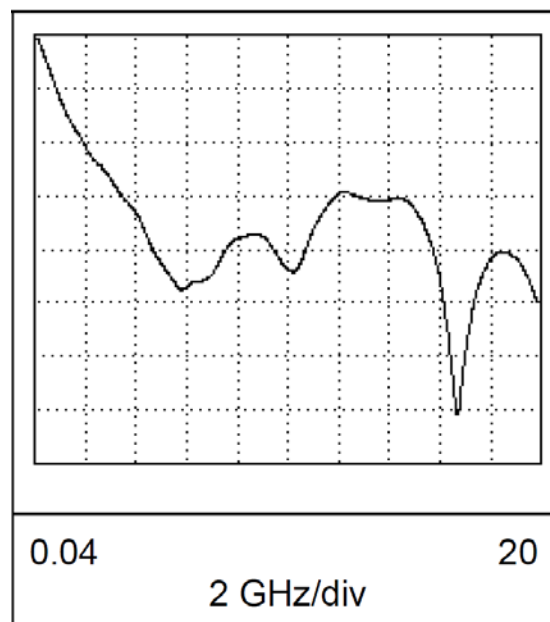
Insertion Loss, S21

0.5 dB/div, top line is 0dB reference



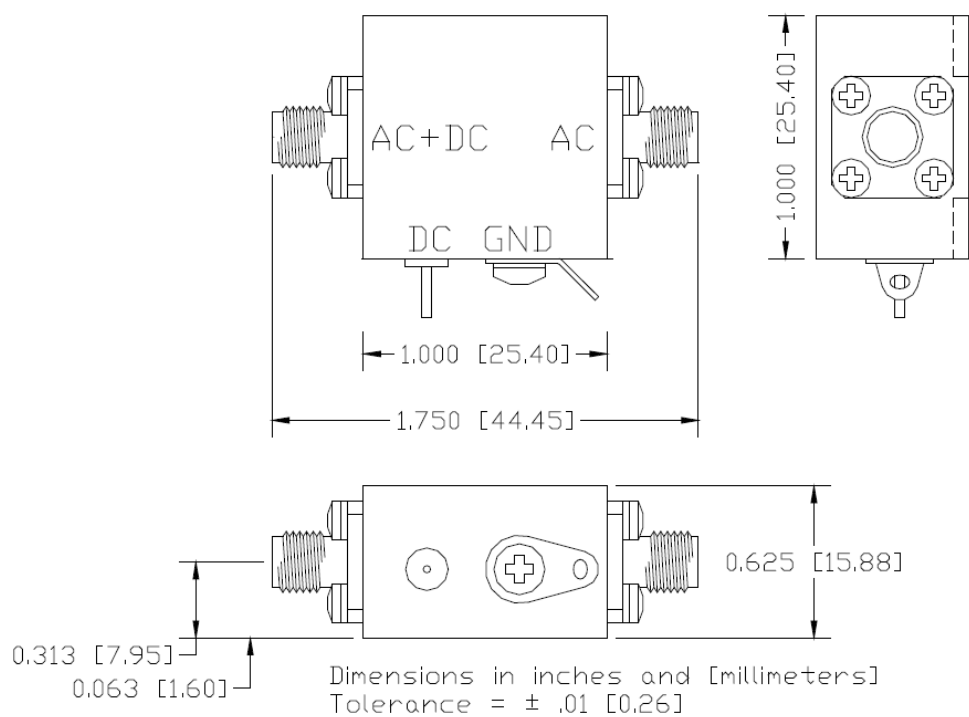
Return Loss, S11

5 dB/div, top line is 0 dB reference



Specifications

Parameter	Symbol	Units	Min	Typical	Max	Comments
Impedance	Z	Ohms		50		
Frequency Range	f	GHz		2 to 18 4 to 10		IL < 1 dB, RL > 10 dB IL < 0.5 dB, RL > 15 dB
Insertion loss	S ₂₁	dB		0.4		At 5 GHz
Input (AC) Return Loss	S ₁₁	dB		20		Mid band, AC port
DC voltage	V	Volts			100	
DC current	I	A			6	
Capacitance (bypass)	C	nF		2		
Capacitance	C	nF		1		
Inductance	L	nH		6		
Resistance	R	Ohm		0.01		
RF power	P	W		20		Average power
Isolation	S ₁₃	dB		40		
DC path bandwidth	f _{c,DC}	MHz		2		
Temperature	T	Deg C	-55		+125	Storage and operating
RF Connectors	SMA jacks (f)					
DC Connector	Solder pin					
Warranty	One Year					

PSPL5585 Mechanical dimensions**Ordering information**

Model	Description
PSPL5585	BIAS TEE, 2-18GHz, 100V, 6A, SMA J-J

ASEAN / Australasia (65) 6356 3900

Belgium 00800 2255 4835*
Central East Europe and the Baltics +41 52 675 3777
Finland +41 52 675 3777
Hong Kong 400 820 5835
Japan 81 (3) 6714 3010
Middle East, Asia, and North Africa +41 52 675 3777
People's Republic of China 400 820 5835
Republic of Korea 001 800 8255 2835
Spain 00800 2255 4835*
Taiwan 886 (2) 2722 9622

* European toll-free number. If not accessible, call: +41 52 675 3777

Austria 00800 2255 4835*
Brazil +55 (11) 3759 7627
Central Europe & Greece +41 52 675 3777
France 00800 2255 4835*
India 000 800 650 1835
Luxembourg +41 52 675 3777
The Netherlands 00800 2255 4835*
Poland +41 52 675 3777
Russia & CIS +7 (495) 6647564
Sweden 00800 2255 4835*
United Kingdom & Ireland 00800 2255 4835*

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Canada 1 800 833 9200
Denmark +45 80 88 1401
Germany 00800 2255 4835*
Italy 00800 2255 4835*
Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Norway 800 16098
Portugal 80 08 12370
South Africa +41 52 675 3777
Switzerland 00800 2255 4835*
USA 1 800 833 9200

Updated 10 April 2013

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29 May 2014



1PW-30584-0

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