

Wideband 10 to 1000 MHz 50Q

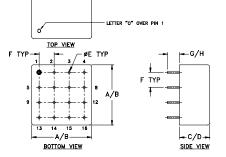
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	30dBm max.
Voltage at DC port	30V max.
Input Current	500mA
DC resistance from DC to RF&DC port	4.5 ohm typ.
Permanent damage may occur if any of these limits	are exceeded.

Pin Connections

RF	9
RF&DC	12
DC	3
GROUND	all other pins
CASE GROUND	1,2,4,5,7,8,11,13,14,15,16

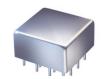
Outline Drawing



Outline Dimensions (inch)

wt	Н	G	F	E	D	С	В	Α
grams	.14	.20	.200	.030	.410	.380	.810	.770
11 0	3.56	5.08	5.08	0.76	10.41	9.65	20.57	10.56

PBTC-1G+ PBTC-1G



CASE STYLE: C07 PRICE: \$28.20 ea. QTY. (1-9)

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

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

Features

- wideband, 10 to 1000 MHz
- low insertion loss, 0.3 dB typ.
- hermetic, metal case

Applications

- biasing laser diodes
- biasing amplifiers
- biasing active antennas
- DC return
- DC blocking
- · military, hi-rel application

Bias-Tee Electrical Specifications

	UENCY IHz)	INS	ERTION LO	SS*	(RF	OLATION* (port to DC IC port to D	port)	VSWR** (:1)				
		L	M	U	L	M	U	L	M	U		
f _L	$f_{_{\rm U}}$	Тур. Мах.	Тур. Мах.	Тур. Мах.	Typ. Min.	Typ. Min.	Typ. Min.	Тур. Мах.	Тур. Мах.	Тур. Мах.		
10	1000	0.15 0.7	0.3 0.7	0.3 0.7	27 20	33 20	30 20	1.06 1.2	1.06 1.2	1.1 1.38		

L= low range (f, to 10 f,)

M= mid range (10 f, to f,/2)

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

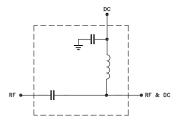
* Insertion Loss and Isolation are guaranteed up to 20 dBm-RF power and 200mA DC current.

** VSWR measured with open and short at DC port.

Typical Performance Data

Freq. (MHz)	Pin (dBm)	INSERTION LOSS (dB) with Current							ISOLATION (dB) (Pin= -10dBm) with current					VSWR (:1)
		0mA	20mA	50mA	100mA	150mA	200mA	10mA	20mA	50mA	100mA	150mA	200mA	
10.00	19.79	0.11	0.15	0.16	0.17	0.17	0.18	31.50	31.01	29.96	29.26	29.22	29.42	1.02
15.00	21.83	0.14	0.18	0.18	0.21	0.21	0.15	31.07	30.42	28.95	27.53	27.08	27.10	1.02
141.86	20.57	0.21	0.25	0.25	0.26	0.27	0.23	33.27	33.24	33.17	33.06	32.90	32.75	1.02
276.19	20.83	0.33	0.37	0.36	0.34	0.36	0.36	33.42	33.39	33.57	33.84	33.99	34.10	1.01
403.05	20.98	0.21	0.25	0.22	0.24	0.27	0.22	40.88	41.42	41.56	42.17	41.76	42.32	1.04
791.10	20.55	0.24	0.27	0.28	0.30	0.32	0.29	35.93	36.18	36.01	35.69	35.76	36.04	1.13
925.43	20.02	0.26	0.28	0.26	0.29	0.33	0.29	30.93	30.83	30.98	30.93	31.00	31.02	1.16
1000.00	19.70	0.33	0.34	0.35	0.35	0.38	0.38	35.63	35.41	35.62	35.80	35.55	35.86	1.17

Electrical Schematic



For detailed performance specs

