

Bias-Tee / Diplexer

ZABT-2R15G+

50Ω 10 to 2150MHz (10MHz, 950-2150MHz)



CASE STYLE: CC51

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	30 dBm Max.
Voltage at DC port	25 V Max.
Input Current	3A
DC resistance from DC to RF&REF&DC port	0.5 Ohm Typ.

Features

- Low insertion loss, 0.5dB Typ.
- Good Isolation, 50dB Typ.

Connectors	Model	Price	Qty.
BNC-SMA FEMALE	ZABT-2R15G+	\$44.95 ea.	(10)

Applications

- Satellite IF band
- Satellite Receivers / Transmitters
- Test accessory

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Coaxial Connections

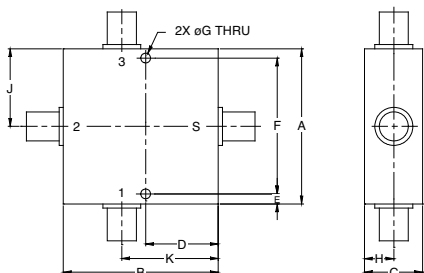
RF	1 (SMA female)
RF&REF&DC	2 (SMA female)
REF	3 (BNC female)
DC	S (BNC female)

Electrical Specifications (T_{AMB} = 25°C)

INSERTION LOSS* (dB)				ISOLATION* (dB)				VSWR (:1)							
Port 3 to Port 2		Port 1 to Port 2		Port 3 to Port 1		Port 1 to Port 3		Port 1 to Port S Port 2 to Port S Port 3 to Port S		Port 2 & Port 3		Port 1 & Port 2			
10MHz		950-2150MHz		10MHz		950-2150MHz		10MHz		950-2150MHz		10MHz		950-2150MHz	
Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.
0.5	0.8	0.4	1.5	90	70	65	35	40	27	50	30	1.4	1.8	1.2	1.6

* Insertion Loss and Isolation are guaranteed up to 24dBm RF power and 2A DC current.

Outline Drawing



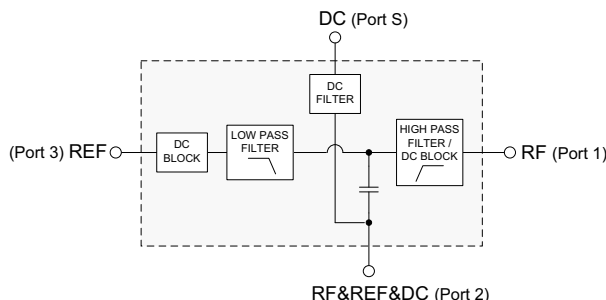
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	wt. grams
2.00	2.00	.75	.938	.13	50.80	50.80	19.05	23.83	3.30	
					1.750	.125	.38	1.00	1.25	200
					44.45	3.17	9.65	25.40	31.75	

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB) (P _{in} = 0dBm) with Current				ISOLATION (dB) (P _{in} = 0dBm) with Current				VSWR (:1) Port 2
	Port 1 to Port 2				Port 1 to Port S				
	0.1A	0.5A	1A	2A	0.1A	0.5A	1A	2A	
2	86.95	84.64	82.68	81.32	85.68	90.10	83.56	79.73	1.37
5	91.38	86.70	91.88	86.01	86.74	94.04	87.43	85.23	1.18
10	82.34	84.06	86.00	88.08	99.69	90.41	102.84	87.90	1.15
25	85.21	88.30	81.14	84.82	81.77	85.93	88.44	86.66	1.26
50	71.95	71.34	71.13	75.94	92.18	81.98	77.94	85.73	1.72
100	48.89	49.05	48.87	49.07	80.26	82.35	84.53	82.73	5.26
500	1.28	1.27	1.27	1.29	55.22	55.53	55.58	55.65	2.24
900	0.30	0.29	0.29	0.30	63.80	64.06	63.66	63.90	1.11
950	0.28	0.28	0.27	0.28	62.39	63.41	65.26	67.45	1.12
1000	0.30	0.30	0.30	0.30	61.29	62.63	63.10	65.87	1.15
1100	0.30	0.29	0.30	0.30	63.07	64.61	62.95	61.13	1.20
1250	0.34	0.34	0.34	0.34	58.61	58.80	58.99	59.10	1.27
1400	0.37	0.38	0.38	0.38	52.47	52.25	51.95	51.98	1.31
1500	0.40	0.39	0.40	0.40	49.52	49.43	49.61	49.65	1.32
1700	0.41	0.41	0.41	0.41	44.39	44.64	44.61	44.68	1.29
1800	0.44	0.44	0.42	0.43	42.46	42.53	42.45	42.39	1.25
2000	0.46	0.47	0.46	0.47	38.42	38.36	38.40	38.44	1.16
2100	0.51	0.51	0.51	0.52	36.33	36.36	36.37	36.37	1.14
2150	0.54	0.54	0.54	0.55	35.32	35.32	35.34	35.34	1.15
2200	0.58	0.58	0.59	0.58	34.28	34.26	34.30	34.26	1.18

Functional Block Diagram



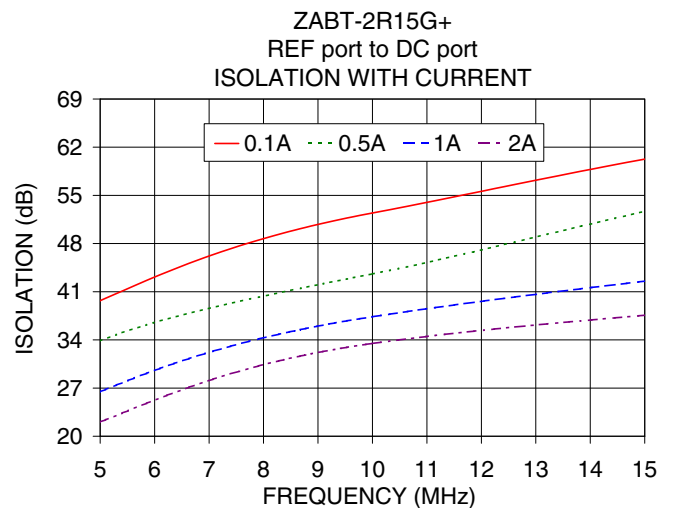
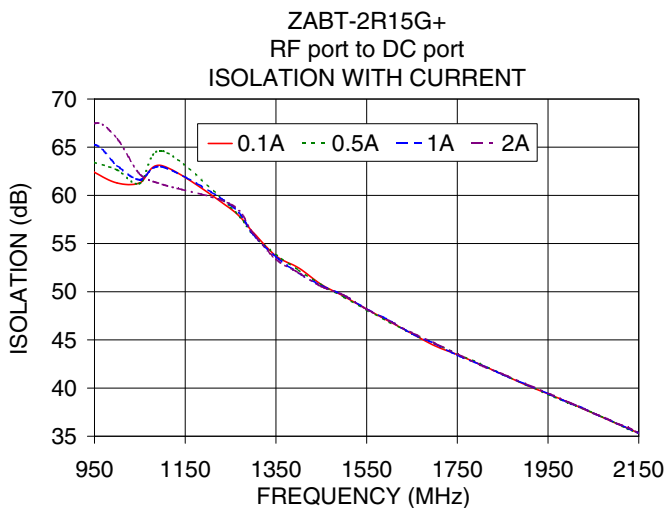
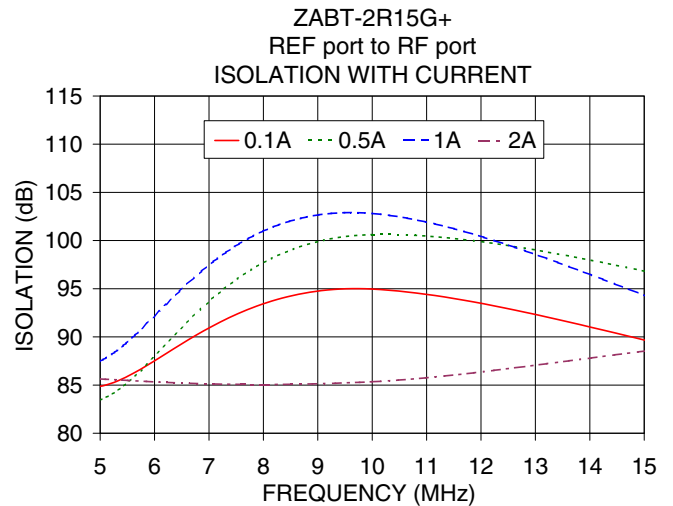
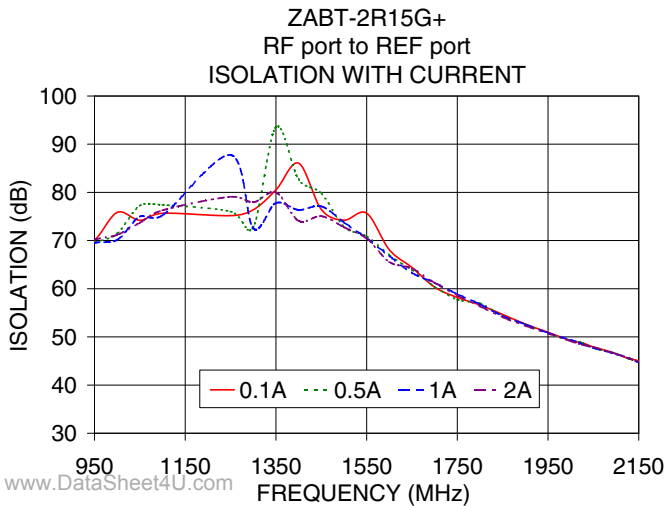
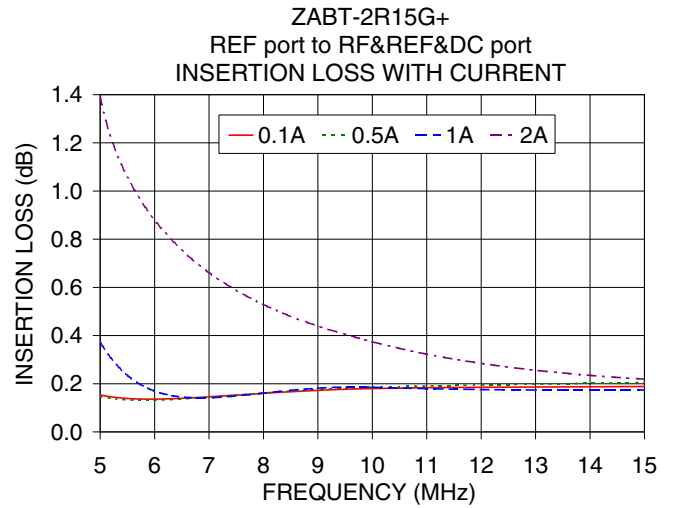
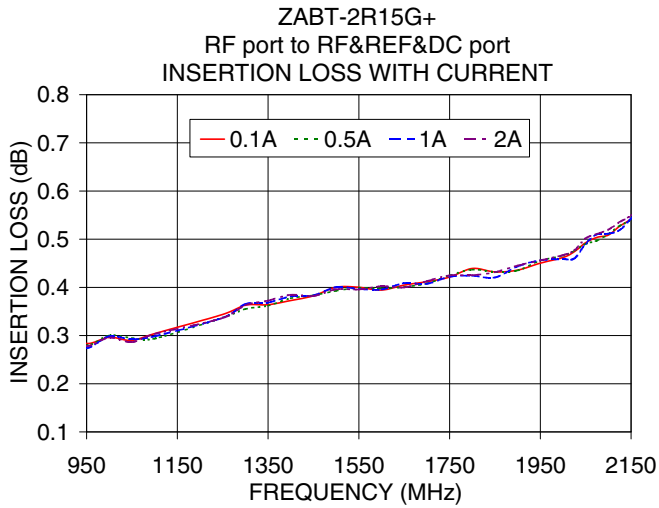
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

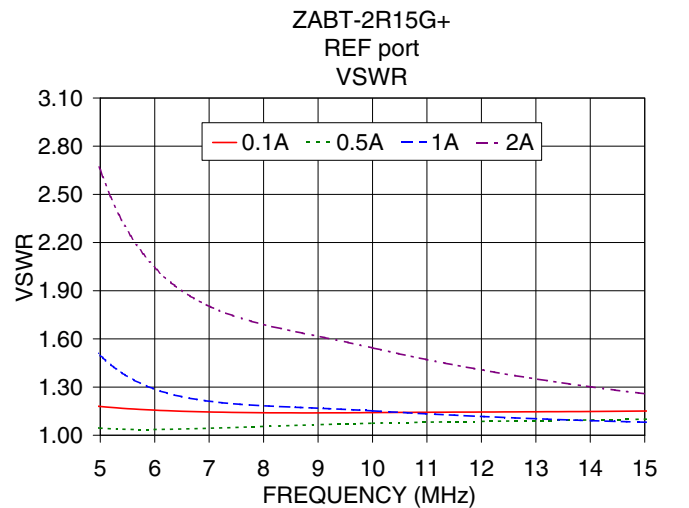
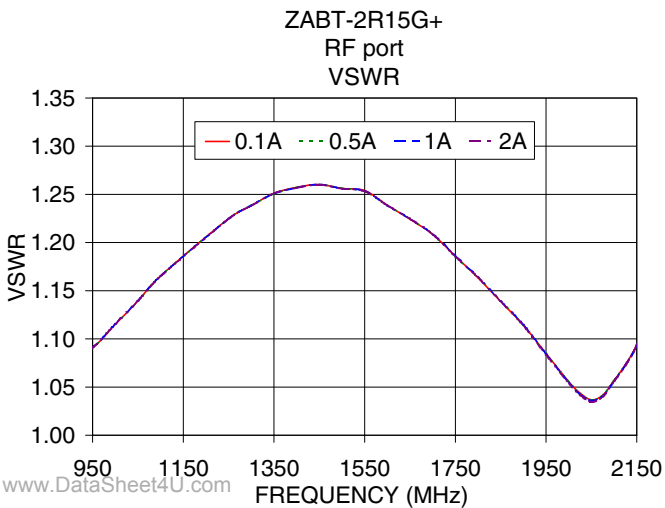
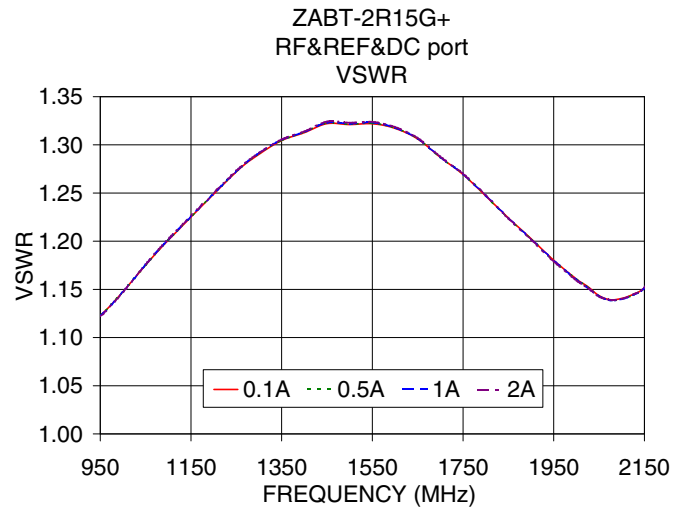
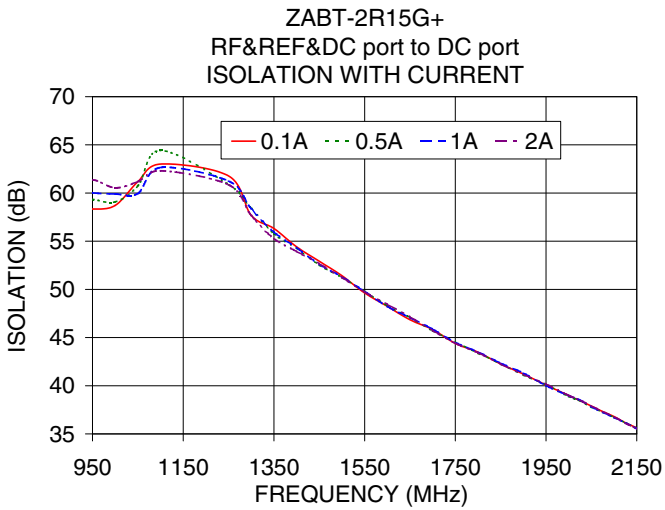


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