

PERFORMANCE SPECIFICATION		MIN	TYP	MAX	UNITS
Frequency Range:		50		6000	MHz
Insertion Loss:	50 MHz – 1 GHz		0.1	0.3	dB
	1 GHz – 2 GHz		0.3	0.5	dB
	2 GHz – 4 GHz		1.0	2.0	dB
	4 GHz – 6 GHz		2.5	4.0	dB
Isolation (RF to DC Port):	50 MHz – 1 GHz		50	35	dB
	1 GHz – 2 GHz		30	25	dB
	2 GHz – 4 GHz		25	20	dB
	4 GHz – 6 GHz		22	20	dB
Bias Path Resistance:			0.03	0.05	Ω
Maximum Ratings:					
RF Power:				2	W
DC Port Voltage:				15	V
Input Current:				1	Amps
Operating Temperature Range:		-40		+85	°C
Storage Temperature Range:		-45		+90	°C

Features:

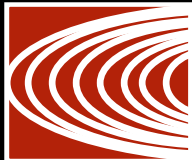
- Low Insertion Loss, 0.5 dB Typical at 2 GHz
- Wideband operation, 50 to 6000 MHz
- High Isolation, 35 dB Typical at 1 GHz



Product Control:

Crystek Part Number:	CBTEE-01-50-6000	Release Date:	14-Jan-2025
Revision Level:	D	Responsible:	C. Vales

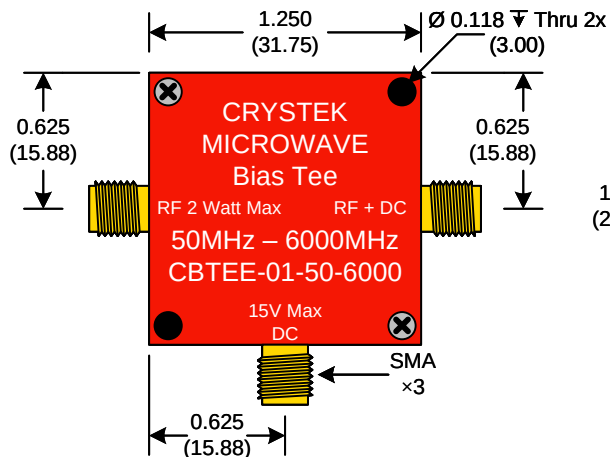




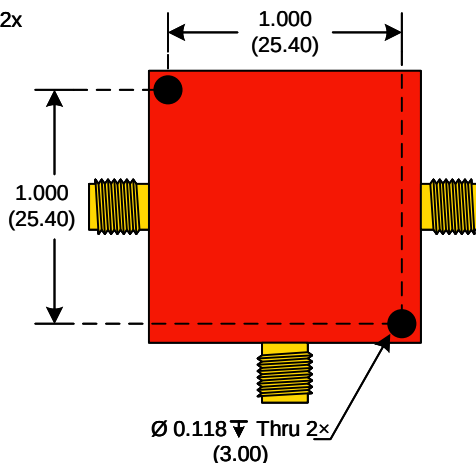
CRYSTEK
MICROWAVE
A DIVISION OF CRYSTEK CORPORATION

RedBox BIAS TEE
CBTEE-01-50-6000

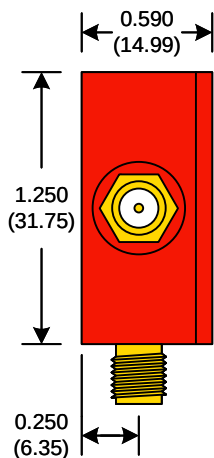
FRONT



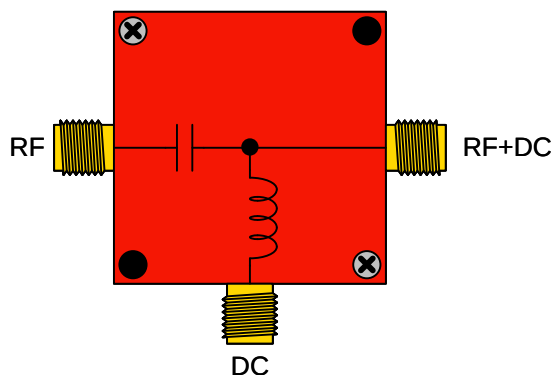
BACK



SIDE



SCHEMATIC



● Unless otherwise specified, Dimensions are in: $\frac{IN}{(mm)}$

Product Control:

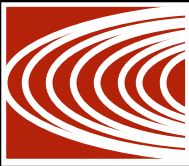
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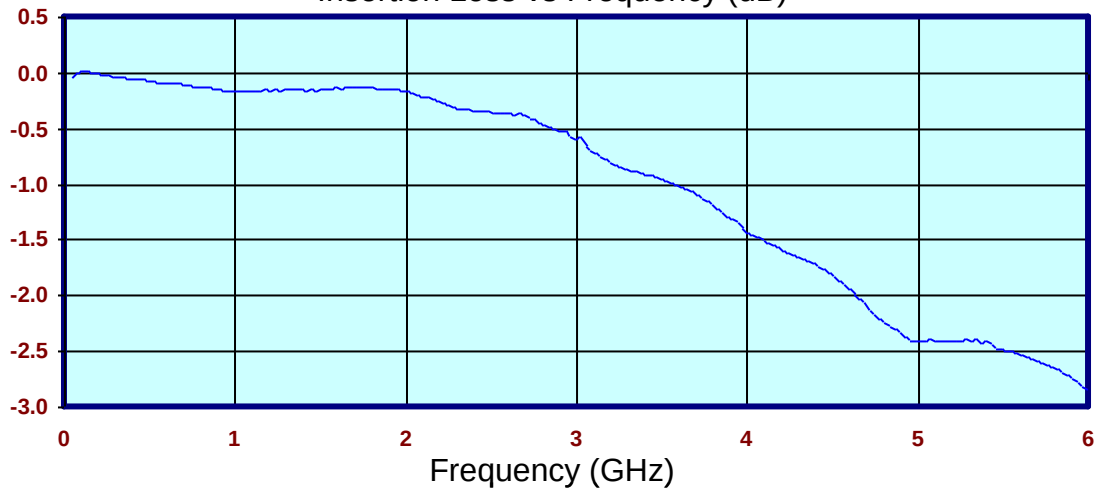


CRYSTEK
CORPORATION

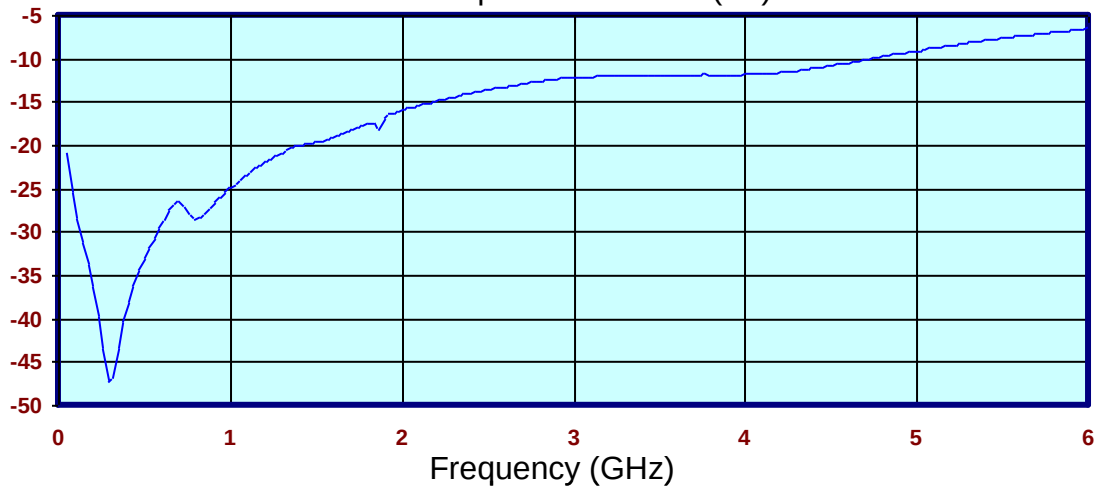
16850 ORIOLE ROAD • FORT MYERS, FLORIDA 33912
PHONE: 239-561-3311 • 800-237-3061
WWW.CRYSTEK.COM



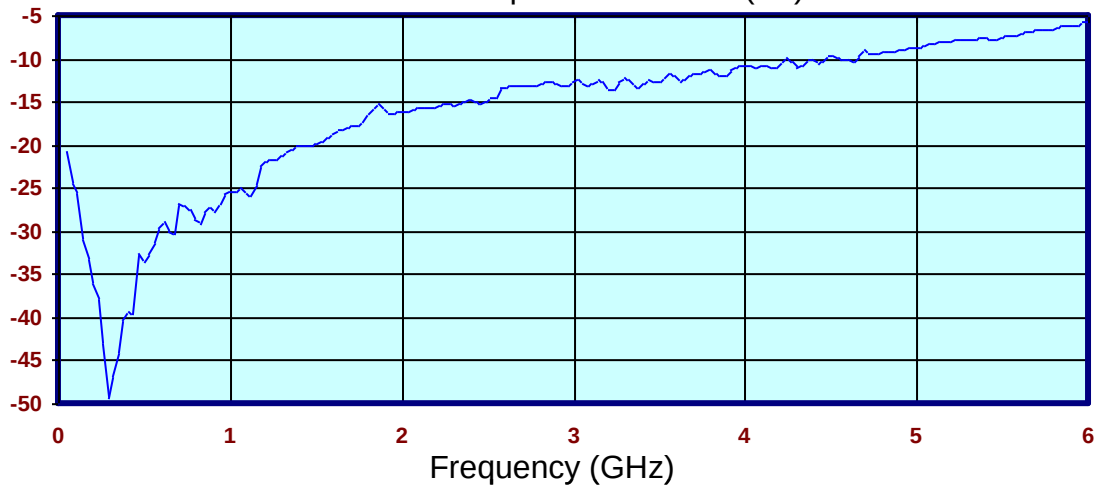
Insertion Loss vs Frequency (dB)



RF Port Input Return Loss (dB)



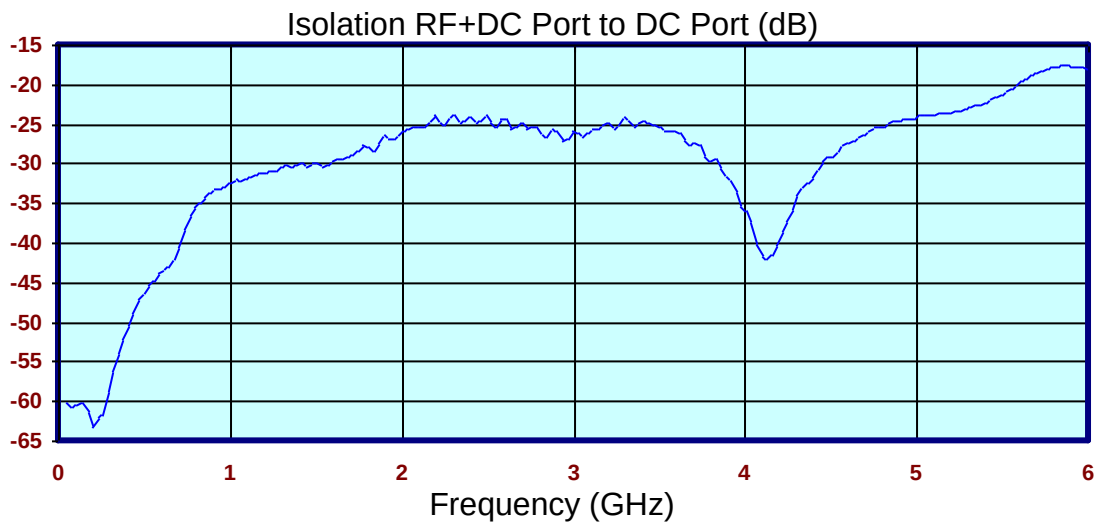
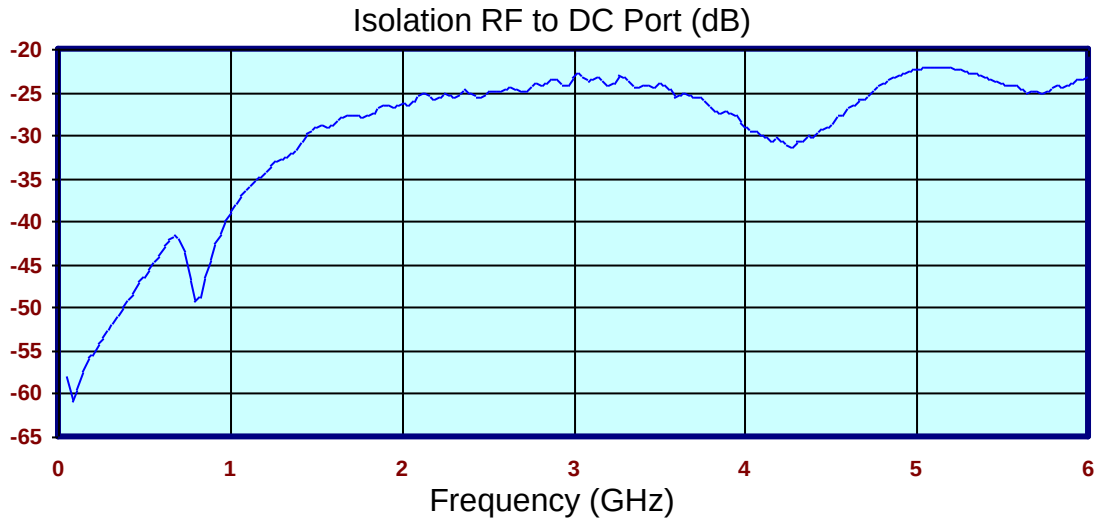
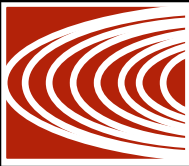
RF+DC Port Input Return Loss (dB)



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