Bolocam JFET Offset Checkout Sheet

Hextant: Date: Testers: JFET temperature: Dewar State:

Bolometer	DB50 from dewar to preamp		bias = 0 V JFET voltages		DB50 from dewar to preamp		bias = +40 mV JFET voltages		DB50 from dewar to preamp		bias = -40 mV JFET voltages	
GND	1				1				1			
GND	34				34				34			
1	13	29			13	29			13	29		
2	3	19			3	19			3	19		
3	12	28			12	28			12	28		
4	11	27			11	27			11	27		
5	49	50			49	50			49	50		
6	2	18			2	18			2	18		
7	14	30			14	30			14	30		
8	15	31			15	31			15	31		
9	7	23			7	23			7	23		
10	17	33			17	33			17	33		
11	10	26			10	26			10	26		
12	8	24			8	24			8	24		
13	45	46			45	46			45	46		
14	37	38			37	38			37	38		
15	6	22			6	22			6	22		
17	4	20			4	20			4	20		
18	39	40			39	40			39	40		
19	9	25			9	25			9	25		
20	35	36			35	36			35	36		
21	47	48			47	48			47	48		
23	41	42			41	42			41	42		
24	5	21			5	21			5	21		
25	16	32			16	32			16	32		
16/00	43	44			43	44			43	44		

Notes:

1) The hextants are numbered corresponding to the order in which the cables come out of the dewar and connect to the electronics backpack slots. The electronics backpack slots are numbered 1 to 9 from left to right. Slots 1 and 9 are for housekeeping. Slot 2 is the JFET and bolometer bias board. Slots 3 through 8 contain the preamps for hextants 6 through 1, respectively.

2) To make measurements, connect directly to the JFET outputs from the dewar (that is, don't use the preamps!)

3) Note that you will need to make voltage measurements relative to dewar ground, which may not necessarily be connected to the shell of the DB50 breakout box.

4) Make sure the bolometer biases are set appropriately!

Revision History

SG 2000/07/21 First version

SG 2001/05/03 Put DB50 next to each column to make it easier to write into.

SG 2004/04/28 Revise to do asymmetric biasing.