

## Budgetary Estimate for Princeton

7/Aug/2000

COSTSIS1.WB2

07-Aug-00

Costs as of 24 May 2000

NRAO Type-581 130-170 GHz SIS mixers, assuming a batch of 4 mixers.
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PER MIXER			Materials services supplies	Labor hours	Direct Labor
Block	Machining	Shop	-	15	\$354
	Plating	Vince	-	1	\$24
	Assembly	Neil	-	4	\$127
Backshorts -pair	Machining	Shop	-	4	\$94
	Plating	Vince	-	1	\$24
	Assembly	Dan	-	4	\$97
Substrate	Lithography	Francoise	-	0.5	\$12
	Sawing	Francoise	-	2	\$48
	Assembly	Neil	-	16	\$508
Junction	Fabrication	UVA	\$1,000	-	-
	Dicing/Thining	Francoise	-	16	\$387
Testing	RF	Pan	-	16	\$717
B/S drive	Machining	Shop	-	24	\$566
	Assembly	Dan	-	8	\$194
Misc.	Materials	-	\$130	-	-
	Cryogens	-	\$120	-	-
	Documentation	Nancyjane	-	4	\$136

TOTALS (per mixer)		\$1,250	116	\$3,289
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Direct Labor	\$3,289	
Benefits	\$987	30.00% of Direct Labor
Labor + Benefits	\$4,275	
Materials etc.	\$1,250	
Labor+Ben+Material	\$5,525	
Overhead	\$4,868	88.10% of Labor+Benefit+Materials

GRAND TOTAL (per mixer)	\$10,393
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Salaries adjusted x 1.04 to reflect 2001 rates.