

(860410)

Names and Type Numbers of VLBA Modules
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April 8, 1986

This memorandum provides a list of recommended numbers and names for VLBA modules. Here the term module is used to include front ends and similar units which may be interchanged for maintenance. The names are those that will appear on the modules and are therefore chosen to be brief as well as descriptive. The letters in the type numbers which designate subsystems are based on the scheme outlined in VLA Technical Report No. 31, p. 9-3. These designations are as follows:

D	=	Digital Signal Processing
F	=	Front End
L	=	Local Oscillator
M	=	Monitor and Control (General)
S	=	Subreflector Control
T	=	Signal Transmission, IF, and Baseband
P	=	Power Supply

Type numbers begin with 101 to distinguish VLBA modules from VLA modules. Type numbers of modules designed by the Haystack group begin with 121. Under package type, the number preceding the letter W specifies the module width in units of 1.375 inches. The part number and revision refer to the top assembly drawing.

This module list should be regarded as provisional. Some units shown may not be required, and other may be added. Note that some of the module numbers have been revised since publication of VLBA Electronics Memo No. 59.

PROVISIONAL TABLE OF VLBA MODULES

Type Number	Module Name	Package Type	Current Part Number Revision
D121	Sampler	2W	
D122	Output Rate Synthesizer	Special	
D123	Formatter	Special	
F102	330/610 MHz Front End	Special	
F103	1.5 GHz Front End	Special	D53203A001
F104	2.3 GHz Front End	Special	
F105	4.8 GHz Front End	Special	
F106	8.4 GHz Front End	Special	D53200A005-1
F107	10.7 GHz Front End	Special	D53200A005-2
F108	15 GHz Front End	Special	D53200A005-3
F109	23 GHz Front End	Special	D53200A005-4
F110	43 GHz Front End	Special	

F111	86 GHz Front End	Special		
F112	6.1 GHz Front End	Special		
F117	Front-End Interface	1W		
L101	Maser Interface	1W		
L102	LO Transmitter	2W		
L103	Round-Trip Monitor	2W		
L104	2-16 GHz Synthesiser	3W		
L105	LO Receiver	3W		
L106	9.4 GHz Oscillator	2W		
L107	Switch Driver	2W		
L121	5 MHz Distributor	2W		
L122	32 MHz Distributor	2W		
M101	Vertex M/C	1W		
P101	15V Power Supply	4W		
P102	15V Power Supply	3W		
P103	5V Power Supply	3W		
P104	28V Power Supply	3W		
P111	Model 22 Power Supply	Special	D53200A007-1	B
P112	Model 350 Power Supply	Special	D53200A007-2	B
S101	F-R Control	2W		
S102	Apex Interface	2W		
S103	F-R Switching	4W		
S104	F-R Interface	1W		
S105	F-R Power Supply	4W		
T101	330 MHz Converter	2W		
T102	610 MHz Filter	2W		
T103	1.5 GHz Converter	2W		
T104	2.3 GHz Converter	2W		
T105	4.8 GHz Converter	2W		
T106	8.4 GHz Converter	2W		
T107	10.7 GHz Converter	2W		
T108	15 GHz Converter	2W		
T109	23 GHz Converter	2W		
T112	6.1 GHz Converter	2W		
T121	IF Distributor	2W		
T122	Baseband Converter	2W		