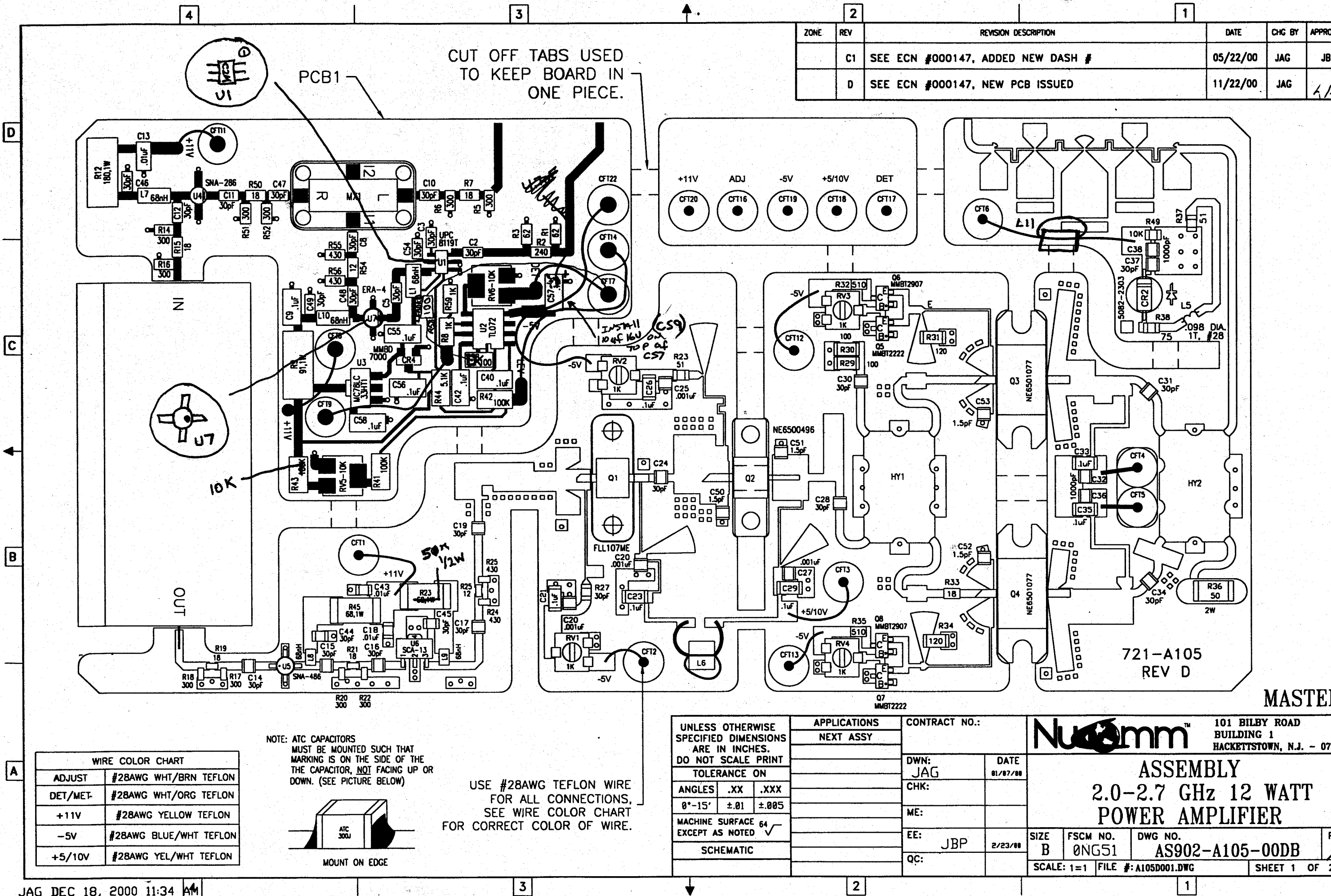
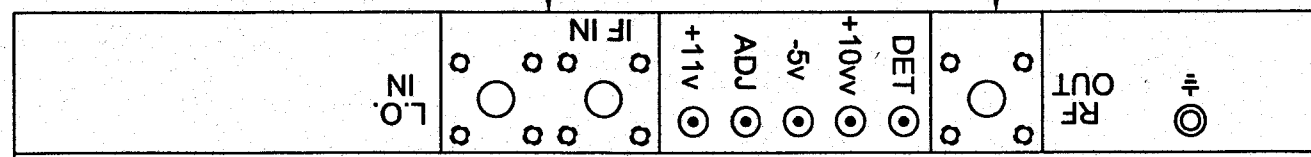


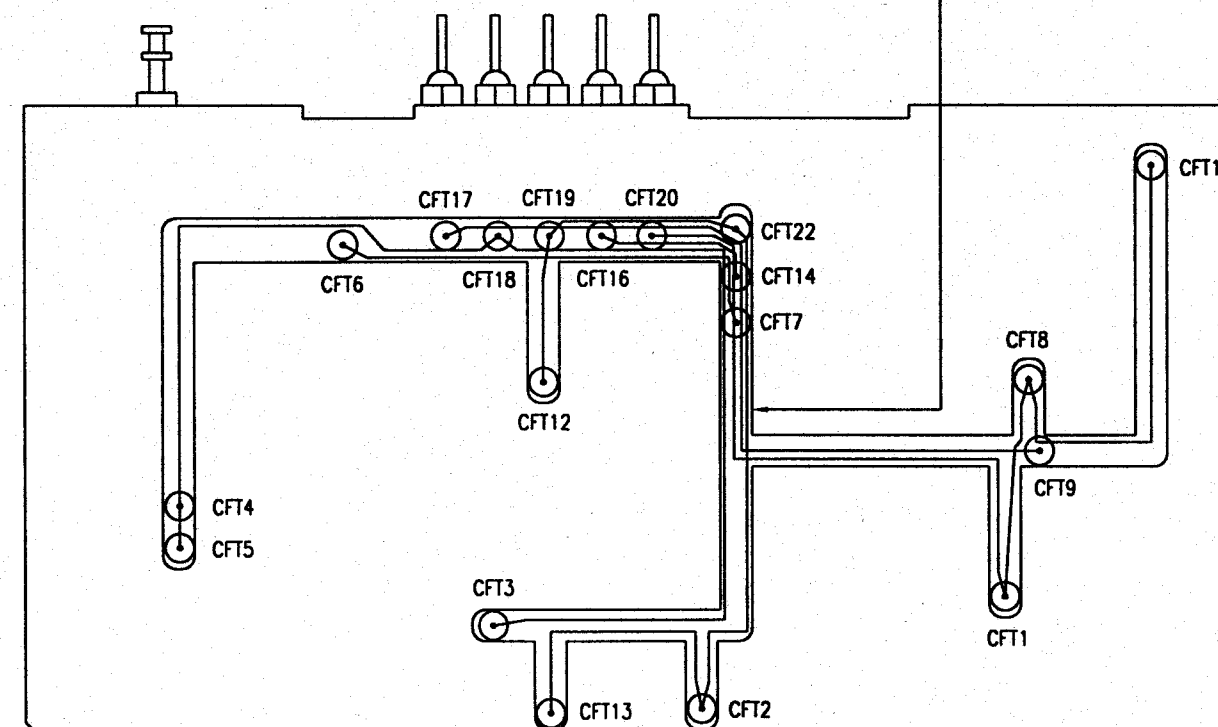
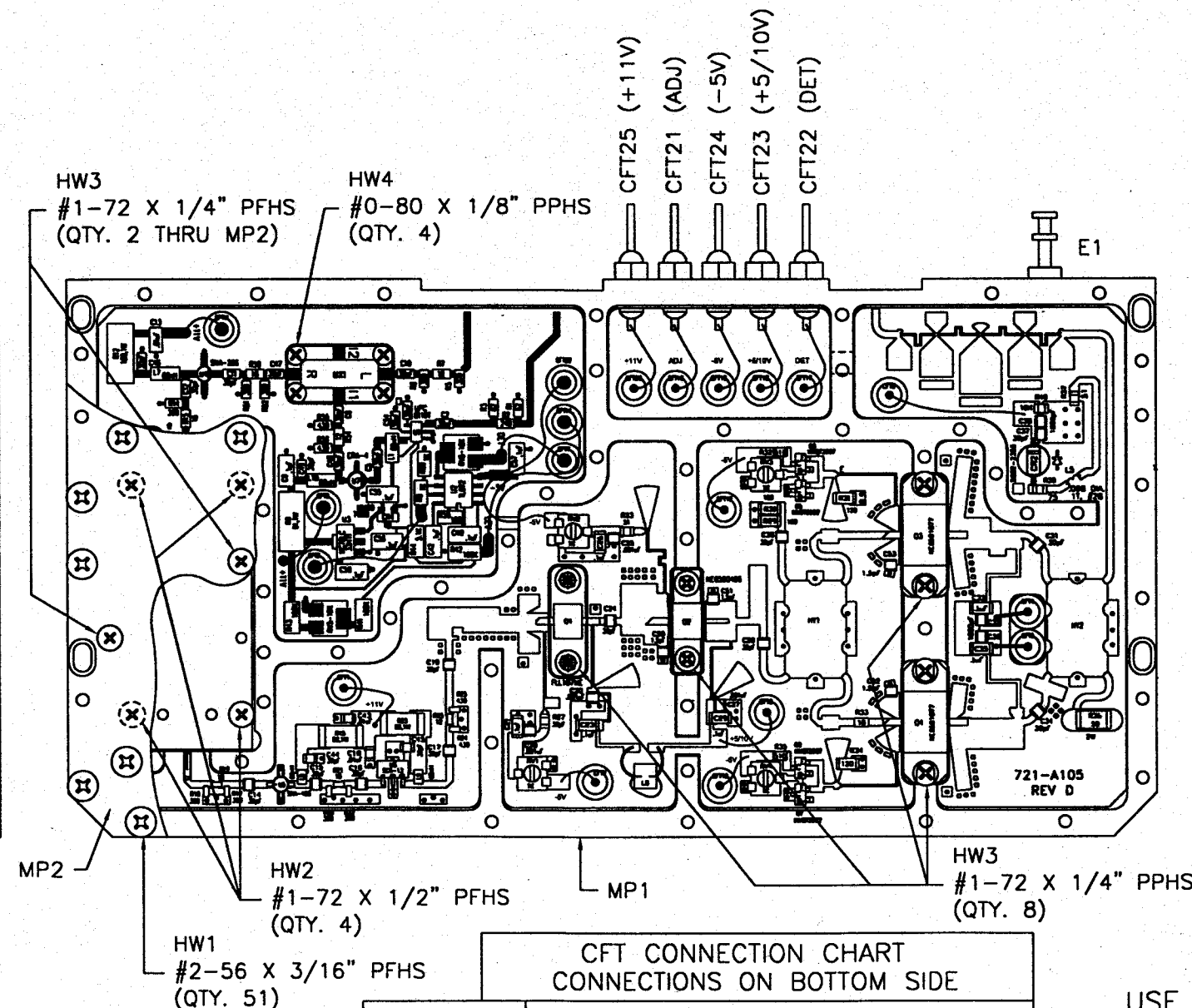


SEE 901 DWG'S FOR
APPROPRIATE CONNECTORS.



ZONE	REV	REVISION DESCRIPTION	DATE	CHG BY	A
	C1	SEE ECN #000147, ADDED DASH #	05/22/00	JAG	
	D	SEE ECN #000147, NEW PCB ISSUED	02/09/01	JAG	

NOTE: RTV WIRES TO CORNERS
& FLOOR AS NEEDED TO
KEEP THEM SECURE.



USE #28AWG TEFLON WIRE FOR ALL CONNECTIONS.

MASTE

WIRE COLOR CHART	
ADJ	#28AWG WHT/BRN TEFLON
DET/MET	#28AWG WHT/ORG TEFLON
+11V	#28AWG YELLOW TEFLON
-5V	#28AWG BLUE/WHT TEFLON
+5/10V	#28AWG YEL/WHT TEFLON

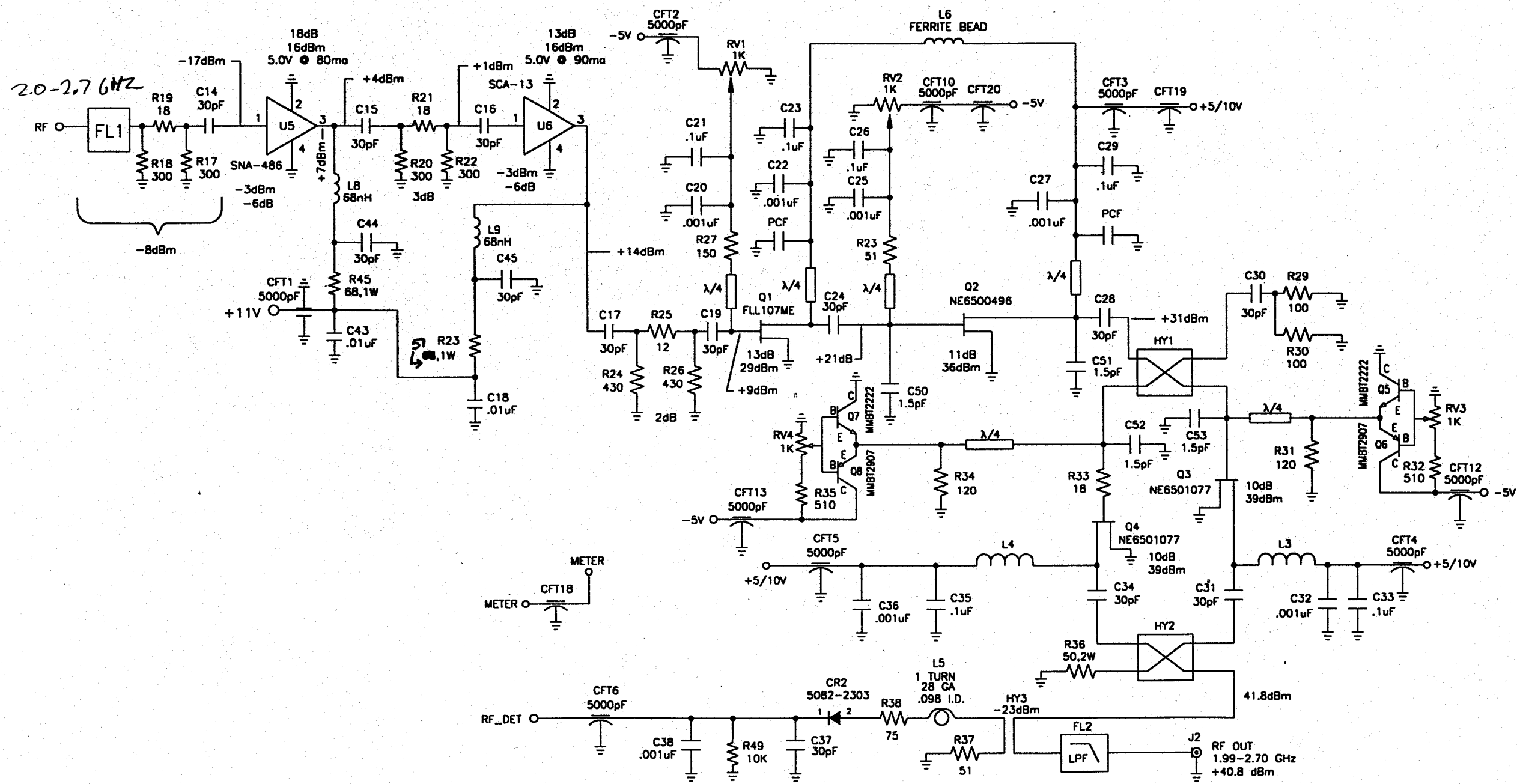
CFT CONNECTION CHART CONNECTIONS ON BOTTOM SIDE	
DET	CFT6 TO CFT7
ADJ	CFT14 TO CFT16
MET	CFT9 TO CFT17
+11V	CFT11 TO CFT8, CFT8 TO CFT1, CFT1 TO CFT20
-5V	CFT13 TO CFT2, CFT2 TO CFT22, CFT22 TO CFT19, CFT12 TO CFT19
+5/10V	CFT5 TO CFT4, CFT4 TO CFT18, CFT3 TO CFT18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DO NOT SCALE PRINT		
TOLERANCE ON		
ANGLES	.XX	.XXX
0°-15°	±.01	±.005
MACHINE SURFACE EXCEPT AS NOTED	64	✓
SCHEMATIC		

APPLICATIONS	CONTRACT NO.:
NEXT ASSY	
	DWN: JAG
	CHK:
	ME:
	EE: JBP
	QC:
	DATE 01/18/00
	2/23/00

Nucomm™		101 BILBY ROAD BUILDING 1 HACKETTSTOWN, N.J. -	
ASSEMBLY 2.0-2.7 GHz 12 WATT POWER AMPLIFIER			
SIZE B	FSCM NO. 0NG51	DWG NO. AS902-A105-00DB	
SCALE: ~		FILE #: A105D002.DWG	SHEET 2 OF 2

ZONE	REV	REVISION DESCRIPTION	DATE	CHG BY
	C1	SEE ECN #000147, ADDED DASH #	05/22/00	JAG
	D	SEE ECN #000147, NEW PCB ISSUED	11/07/00	JAG



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DO NOT SCALE PRINT	APPLICATIONS		CONTRACT NO.:		 101 BILBY ROAD BUILDING 1 HACKETTSTOWN, N.J.				
	NEXT ASSY								
			DWN:	DATE					
			JAG	12/16/99					
			CHK:						
			ME:						
			EE:						
			JBP	2/23/00					
			QC:						
						SIZE		FSCM NO.	DWG NO.
				B	0NG51	SC902-A105-00DB			
				SCALE: ~		FILE #:		A105D001.DWG	SHEET 1

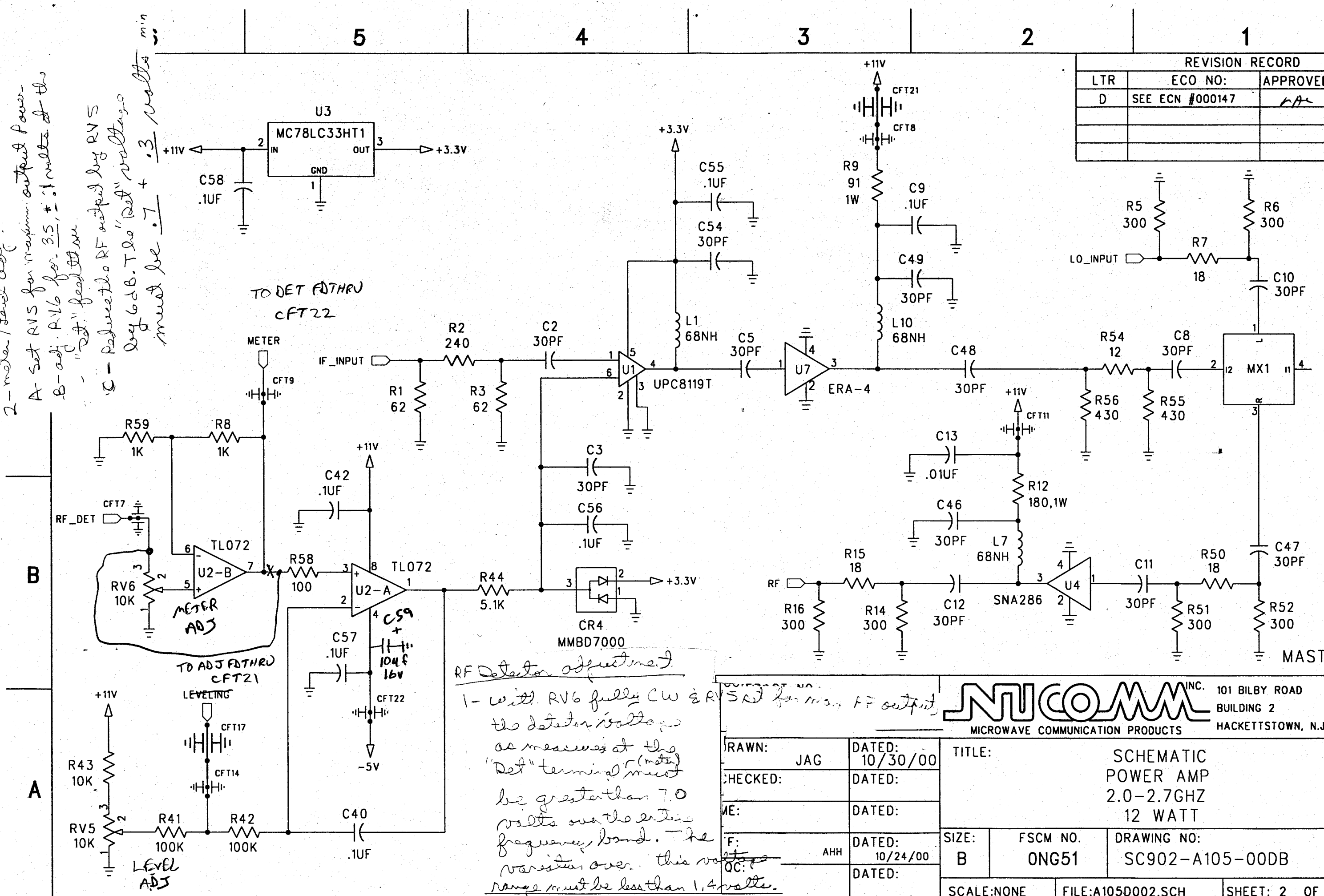
TOLERANCE ON		
ANGLES	.XX	.XXX
0°-15'	±.01	±.005
MACHINE SURFACE EXCEPT AS NOTED		
SCHEMATIC		

SCHEMATIC		
2.0-2.7 GHz 12 WATT		
POWER AMPLIFIER		

64		
✓		

2-meter / level adj.
 A - Set RV5 for maximum output power.
 B - adj. RV6 for 3.5 ± .1 volts at the "Det" terminal.
 C - Refer to the RF output by RV5 by 6 dB. The "Det" voltage must be .7 + .3 volts min.

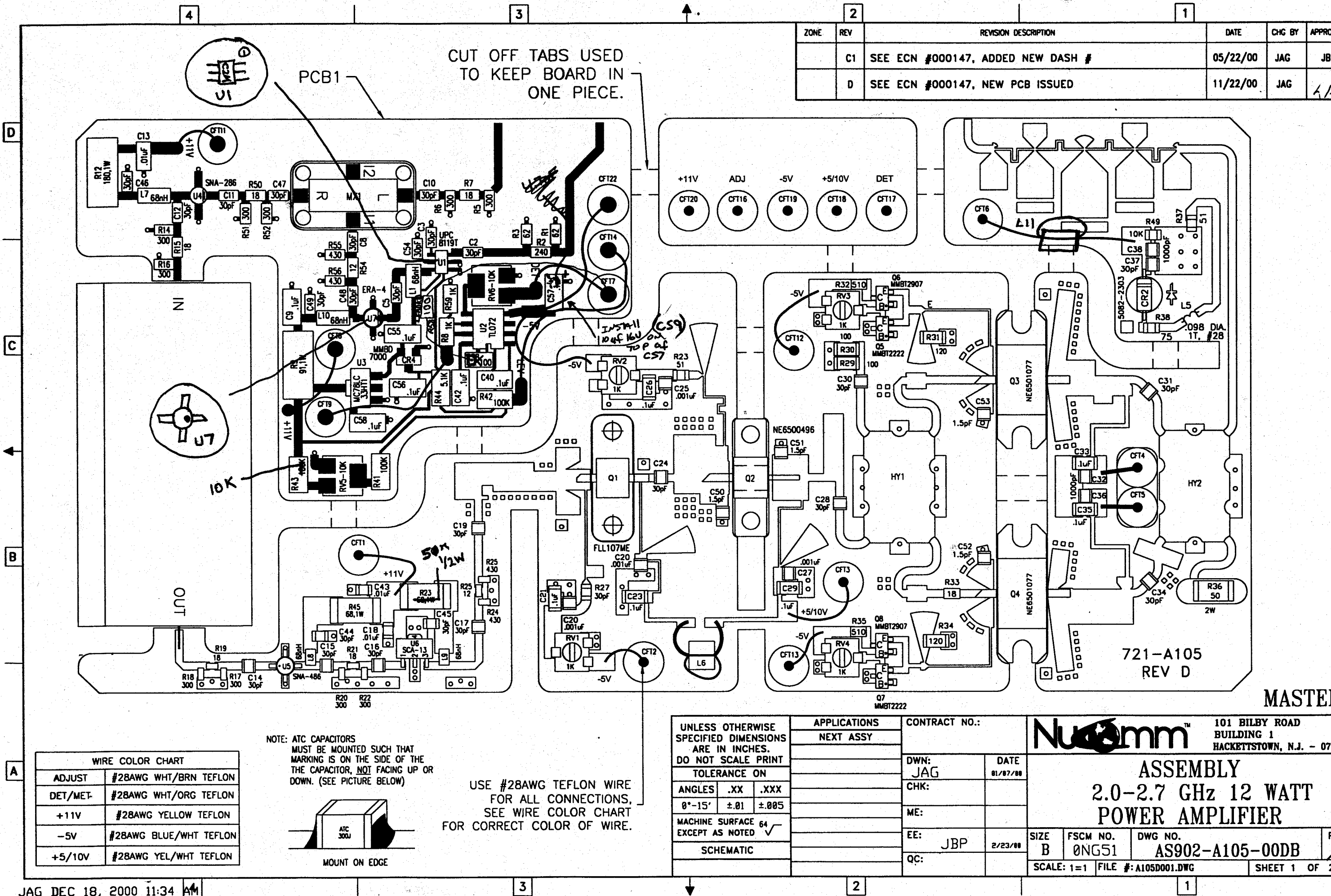
REVISION RECORD		
LTR	ECO NO:	APPROVED
D	SEE ECN #000147	LA



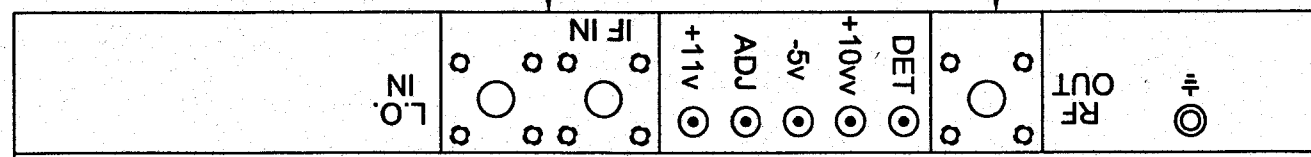
RF Detector adjustment.
 1 - With RV6 fully CW & RV5 set for max RF output, the detector voltage as measured at the "Det" terminal must be greater than 7.0 volts over the entire frequency band. The variation over this voltage range must be less than 1.4 volts.

101 BILBY ROAD
BUILDING 2
HACKETTSTOWN, N.J.

DRAWN: JAG		DATED: 10/30/00		TITLE: SCHEMATIC POWER AMP 2.0-2.7GHZ 12 WATT	
CHECKED:		DATED:			
ME:		DATED:			
F: AHH		DATED: 10/24/00			
DATED:		SIZE: B	FSCM NO. ONG51	DRAWING NO: SC902-A105-00DB	
SCALE: NONE		FILE: A105D002.SCH		SHEET: 2 OF	

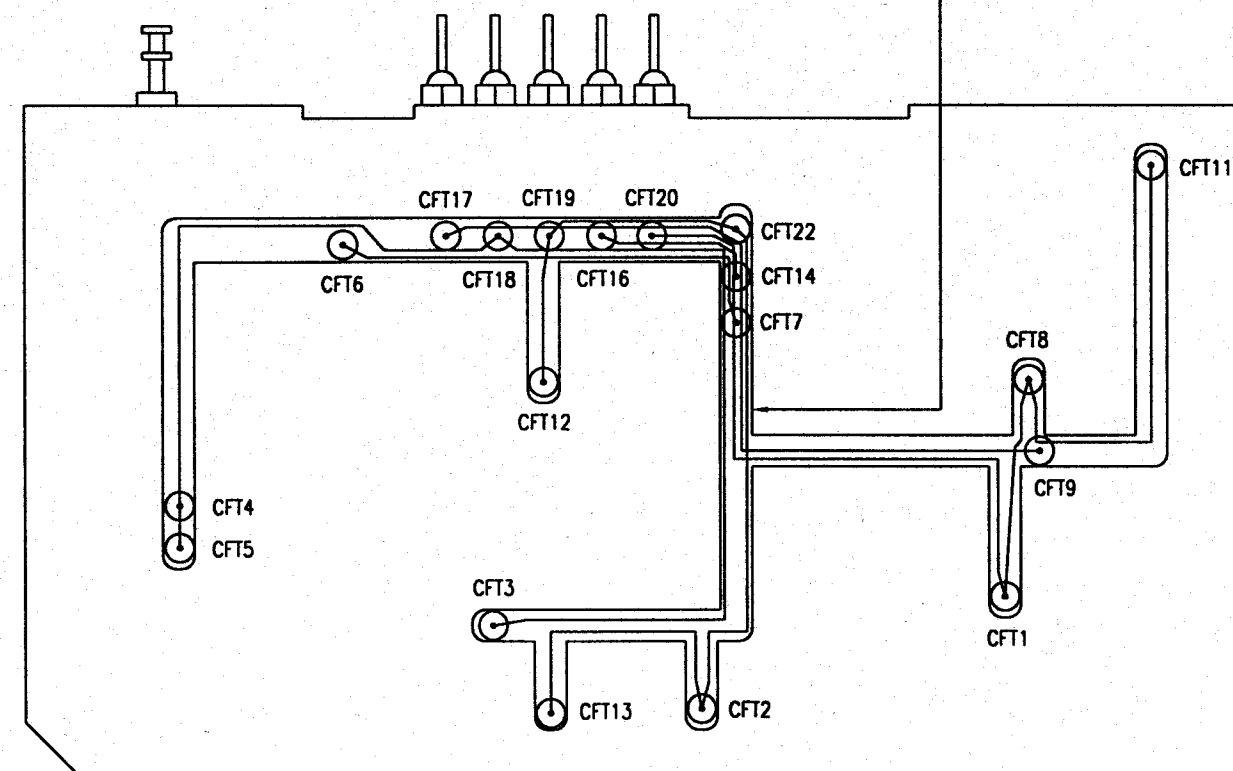
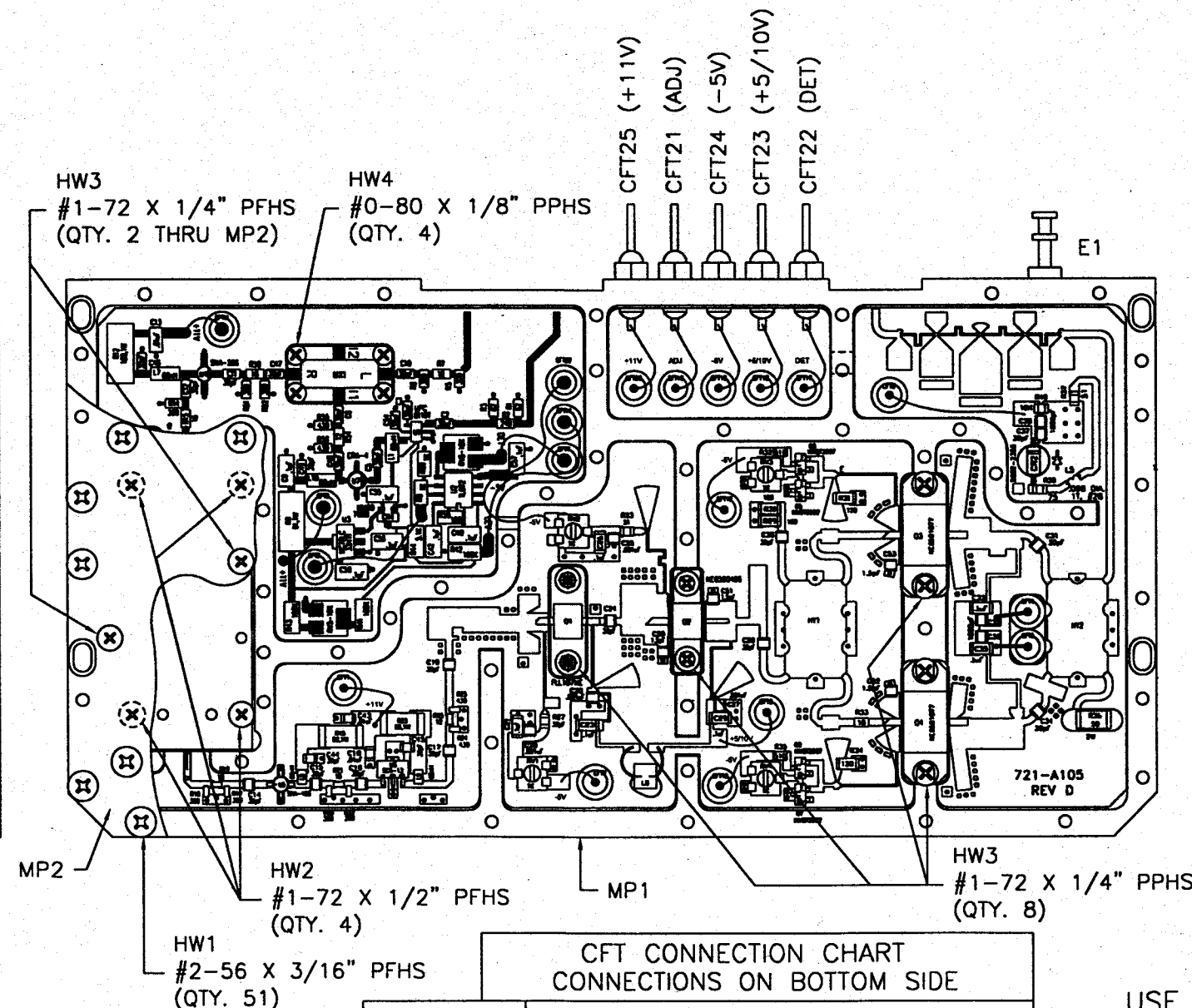


SEE 901 DWG'S FOR
APPROPRIATE CONNECTORS.



ZONE	REV	REVISION DESCRIPTION	DATE	CHG BY	A
	C1	SEE ECN #000147, ADDED DASH.	05/22/00	JAG	
	D	SEE ECN #000147, NEW PCB ISSUED	02/09/01	JAG	

NOTE: RTV WIRES TO CORNERS
& FLOOR AS NEEDED TO
KEEP THEM SECURE.



CFT CONNECTION CHART
CONNECTIONS ON BOTTOM SIDE

DET	CFT6 TO CFT7
ADJ	CFT14 TO CFT16
MET	CFT9 TO CFT17
+11V	CFT11 TO CFT8, CFT8 TO CFT1, CFT1 TO CFT20
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+5/10V	CFT5 TO CFT4, CFT4 TO CFT18, CFT3 TO CFT18

USE #28AWG TEFLON WIRE FOR ALL CONNECTIONS.

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WIRE COLOR CHART	
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UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES.
DO NOT SCALE PRINT

TOLERANCE ON

ANGLES	.XX	.XXX
0°-15°	±.01	±.005

MACHINE SURFACE 64
EXCEPT AS NOTED ✓

SCHEMATIC

APPLICATIONS	CONTRACT NO.:
NEXT ASSY	
	DWN: JAG DATE 01/18/00
	CHK:
	ME:
	EE: JBP 2/23/00
	QC:

NuComm 101 BILBY ROAD
BUILDING 1
HACKETTSTOWN, N.J.

ASSEMBLY
2.0-2.7 GHz 12 WATT
POWER AMPLIFIER

SIZE B	FSCM NO. 0NG51	DWG NO. AS902-A105-00DB
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SCALE: ~ FILE #: A105D002.DWG SHEET 2 OF 2