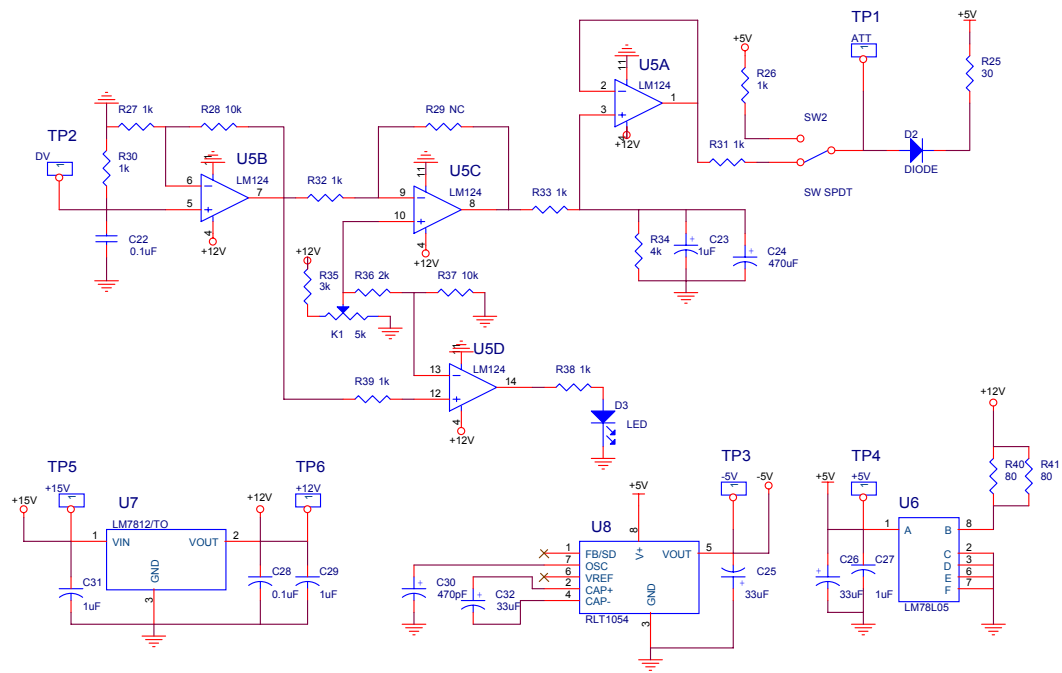


IBDB ESMR 10W40 CIRCUITS

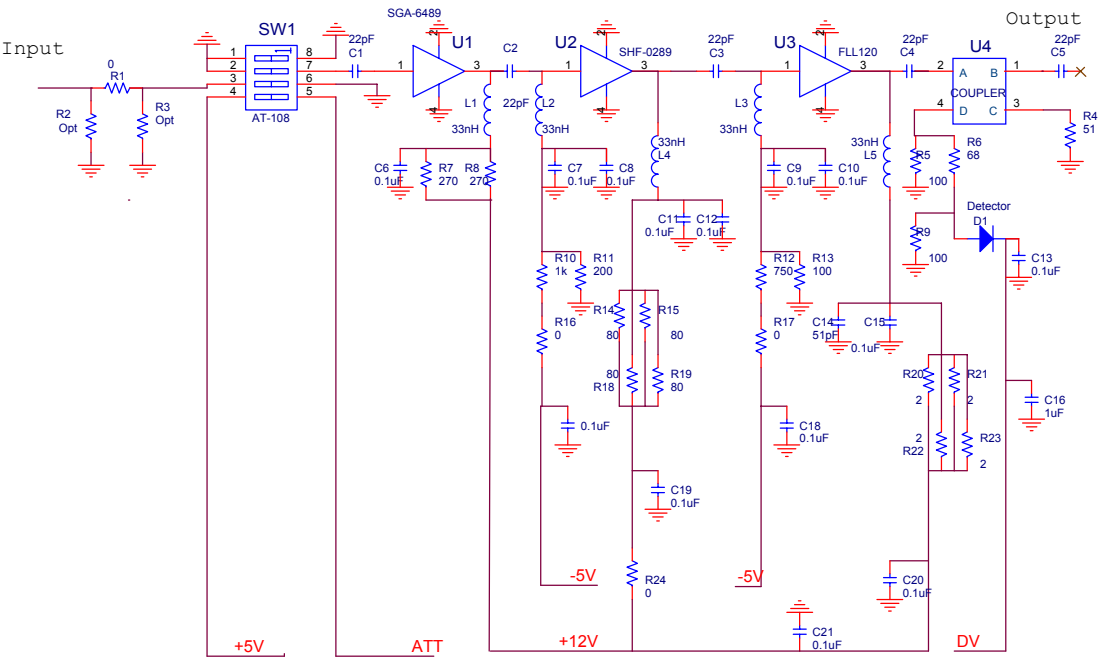
DOWNLINK AMP- DC SECTION



Title			
Power Amplifier 10W			
Size	Document Number		Rev
A	300PA10504		1
Date:	Monday, February 09, 2004	Sheet	2 of 2

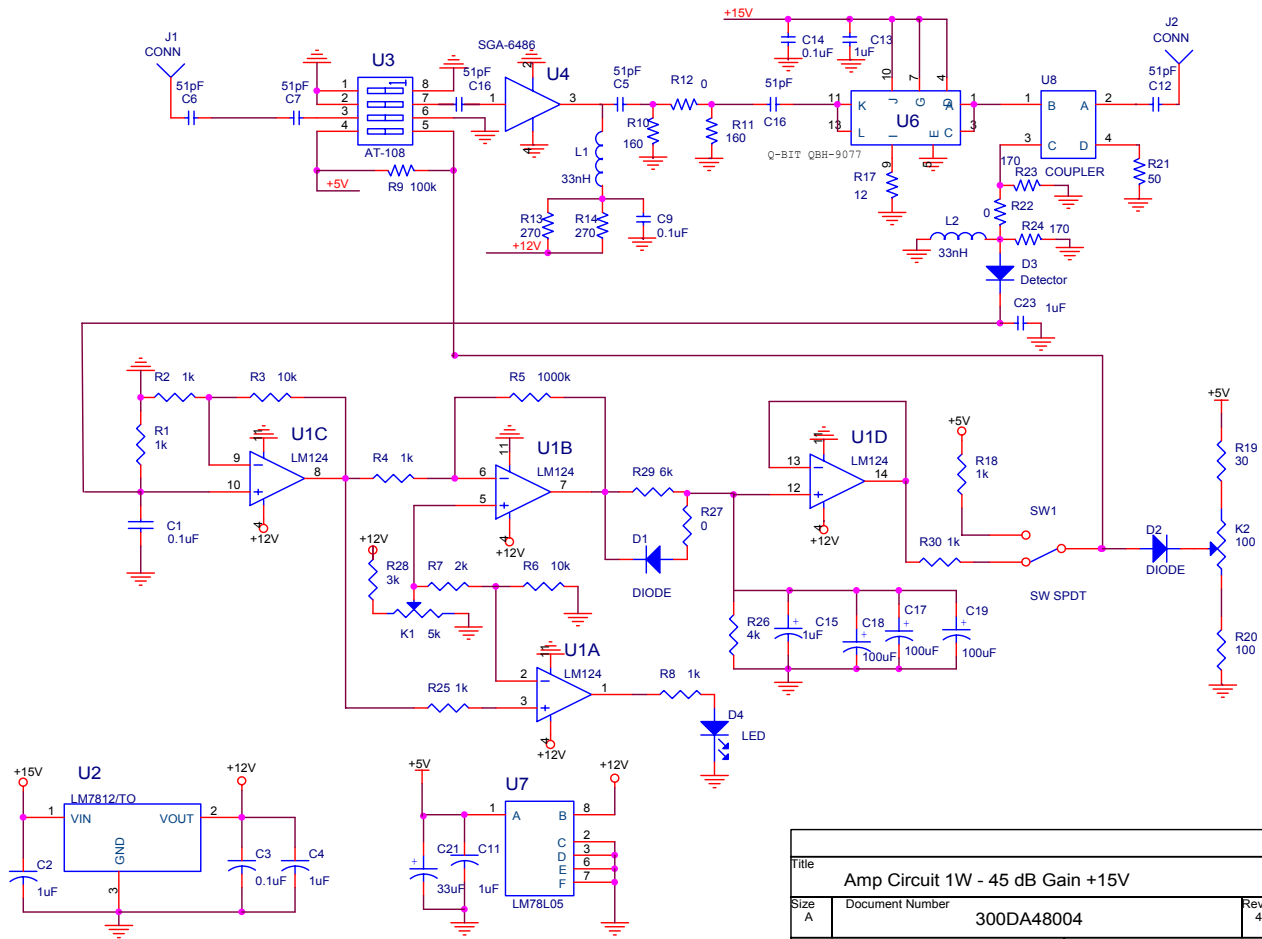
DC VOLTAGE- 14 V
CURRENT- 3A

DOWNLINK AMP FR SECTION



Title			
POWER AMPLIFIER 10W			
Size	Document Number		Rev
A	300PA10504		1
Date:	Monday, February 09, 2004	Sheet	1 of 2

UPLINK AMPLIFIER CIRCUIT

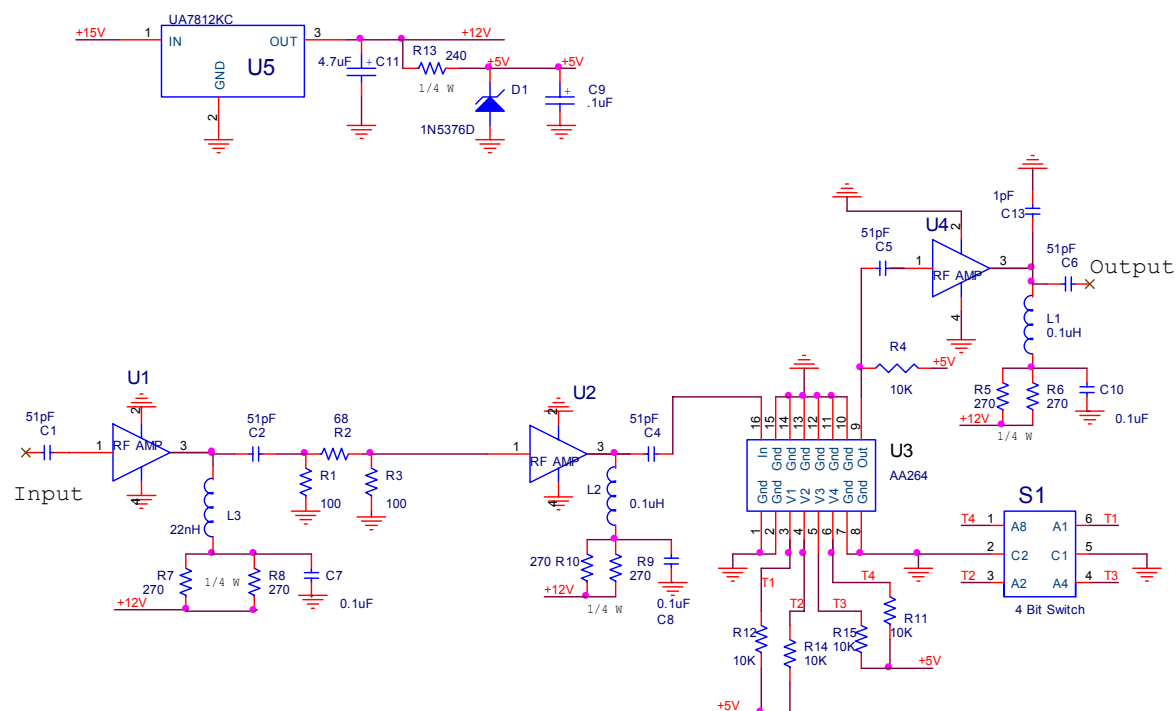


Title		
Amp Circuit 1W - 45 dB Gain +15V		
Size A	Document Number	Rev 4
	300DA48004	
Date:	Thursday, August 02, 2001	Sheet 1 of 1

DC VOLTAGE- 28 V

CURRENT – 0.7 A

PRAMPLIFIER STEP ATTENUATOR(UPLINK OR DOWNLINK)



Title			
Preamplifier Step Attenuator			
Size	Document Number		Rev
A	300HA65004		
Date:	Tuesday, August 01, 2000	Sheet	1 of 1

DC VOLTAGE -14 V
CURRENT - 0.2 A