



Note:

Component values for Left & Right channels shown
 For Ground channel, R1=open, R2=1K, R3,R4=2.49K, C2-C5=100pF
 01, 02: LSK389B, LSK170B or 2SK170BL
 03, 04: L5J109B, L5J74B or 2SJ74BL
 019, 020: PN4392
 All NPN BJTs: BC590C
 All PNP BJTs: BC560C
 All N-MOSFETs: 1RF224N; All P-MOSFETs: 1RF9234N
 All CMOS: J503, JN5291, E-501 or J201
 Diodes D3, D4: 1N4148; D11, D12: 1N4004
 All zener diodes: BZX55C12
 All capacitors are rated 50V or higher
 All resistors are 1/8W 1% metal film type unless otherwise noted

Gain	R3	R4	C2-C5
11	100	1K	22p
8	182	1.21K	33p
5	392	1.5K	47p
2	2.49K	2.49K	100pF

Power supply: Regulated +/-24V to +/-30V DC
 Adjust VR1 for JFET $I_{ds} = 2mA$
 Adjust VR2 for MOSFET $I_{ds} = 160mA$
 Adjust VR3 for output DC offset < 1mV

AMB Labs
beta22 Amplifier

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 Amp PCB