



POWER
 J5
 +48V PV
 -48V NV
 Molex 0.156"

PERFORMANCE
 slew rate, fmax
 with Q19, Q25
 S = 5/2pi f A
 160mA/120pF
 S = 1330V/us
 S = 2pi f A
 fmax = 5/2pi 40V
 fmax = 5 MHz
 without Q19, Q25 stage
 42pF/pair, 3 or 7 pairs
 S = 540V/us

INPUT
 J1
 R01 1.0k
 R02 4.9k, 1W
 R03 20
 R04 33
 R05 33
 R06 47
 R07 250, 0.5W
 R08 422
 R09 24.9
 R10 12.4
 R11 12.4
 R12 124
 R13 11.3
 R14 omit
 R15 10
 R16 omit
 R17 10
 R18 10
 R19 24.9
 R20 422
 R21 250, 0.5W
 R22 12.4
 R23 12.4
 R24 diode
 R25 omit
 R26 124
 R27 10
 R28 omit
 R29 36.5
 R30 33.2
 R31 36.5
 R32 43.2
 R33 11.3
 R34 omit
 R35 20, 1W
 R36 10
 R37 10
 R38 10
 R39 3.3 NS
 R40 3.3 NS
 R41 3.3 NS
 R42 3.3 NS
 R43 3.3 NS
 R44 3.3 NS
 R45 10
 R46 10
 R47 10
 R48 0.51, 3W, flm
 R49 0.51, 3W, flm
 R50 330, 1W
 R51 27.2W
 R52 27.2W
 R53 27.2W
 R54 27.2W
 R55 27.2W
 R56 27.2W
 R57 27.2W
 R58 27.2W
 R59 27.2W
 R60 820, 1/2W
 R61 470, 1%, 3W, 1/16, 11.3k
 R62 470, 3W
 R63 47.5
 R64 10
 R65 10
 R66 3.3 NS
 R67 3.3 NS
 R68 3.3 NS
 R69 3.3 NS
 R70 10
 R71 10
 R72 470, 1%, 3W, 1/16, 11.3k
 R73 11.3k
 R74 4.02k
 R75 6.19k
 R76 620
 R77 4.02k
 R78 105k
 R79 1500n, 25V
 R80 35V
 R81 4.99k
 R82 2.49k
 R83 2.49k
 R84 0.05
 R85 0.05
 R86 4.7

TO-220F transistors
 NPN: Q12-13, 38-39 ZTX450
 PNP: Q03-04, 37 ZTX550
 Q1, 2 ZTX618, ZTX718
 PV > 24V: omit Q05-Q06, 10-11
 and use Q35, Q36

TO-220F transistors
 NPN: 2SC4883 (10)
 PNP: 2SA1859 (10)
 4883 TO-220F
 1859 B C E
 3503 TO-126
 1381 E C B
 alternates
 2SC5171 TO-220F
 2SA1930

DC-10MHz 5A 1kV/us amplifier
 W. Hill
 C. Risk
 Revision
AMP-70A-2 V2
 2016-02-16