TYPICAL SWITCHED ATTENUATOR AND AMPLIFIER (4 REQ'D)

OUTPUT AMPLIFIER

SW 5300 MODE

SW 5310 VOLTS/CM

FOR ADDITIONAL DETAILS OF MODE SWITCHES SEE CHANNEL SWITCHING CIRCUIT.

GATING PULSE FROM RING COUNTER (CHANNEL SWITCHING CIRCUIT)

BUSSES CONNECTING SWITCHED AMPLIFIERS TO OUTPUT AMPLIFIER.

INPUT CONNECTOR

DC / AC / OFF / AC / DC — NORM. / INV.

C5301 0.1 — C5304 11

X100 — X10 — X5 — X2½

10 5 2 1 .5 .2 .1 .05 .02

R5316 20

R5318 1M — R5317 1M — C5317 2-8

C5318 .01

C5322 .01 — R5322 47 — +50V

R5319 47 — D5323

V5323 7586

R5323 68K — -150V

C5325 9-35 18

R5326 215 — VAR. GAIN

C5327 240 270

R5327 249

R5336 100 — GAIN ADJ.

R5344 2.7K

R5335 33K

R5324 150 — D5345

R5341 4.7K

R5345 1.62K

Q5324 +6.3V — D5325

D5324 T12G

R5325 33K

R5342 20K — POSITION

R5340 30K — -150V

R5347 1.62K

R5343 4.7K

D5347

+6.3V

R5331 390 — DC BAL.

R5332 100 — C5333 470

R5333 47

Q5334

R5334 150

D5346 — D5348

DCO / ACO / OFF / ACO / DCO — INV. / NORM.

1 V/CM — 0.05V/CM — 100V — +0.35V — +1.6V — +1.3V — +1.6 — +0.35 — +0.3 — +6.3V

+350V — R5380 3.9K — TO 'A' BELOW

R5382 8.2K — C5380 .001

R5363 600 — L5363 3.3-6μh — +69V — +66

D5360 T12G — R5361 47 — +100V — +0.3

V5383A ½12AT7 — L5384 0.3μh

V5364 *½12AU6 — +1.3

R5362 47 — R5360 150K — C5375 .02

R5384 9.1K

L5360 .75μh — -150V

R5377 56 — C5378 290 — VERT. POS. RANGE — R5378 100

H.F. PEAKING — R5385 2K

R5365 10K — -150V

L5370 .75μh

R5375 620

R5386 9.1K

R5372 47 — R5370 150K — +1.4

V5374 *½12AU6

R5371 47 — +100V — +0.3

D5370 T12G

V5383B ½12AT7 — L5386 0.3μh

R5373 600 — L5373 3.3-6μh — +66

R5388 47

+69V

R5389 8.2K — C5388 .001

0.1V/CM — +67

5V/CM — 0V

"A" SIGNAL OUT

CHANNEL A ONLY

+13.6V

R5351 1.5K — +11.7 — 0.9

C5355 470 — R5357 150 — 0.3

Q5354

R5350 1.5K — +1.55

Q5344A

+0.94

R5355 10K — R5349 100K

C5348 .0022 — R5348 51 — -150V

R5354 10K — OUTPUT DC LEVEL — R5353 56K

+0.98

R5358 3K — R5359 30K — -150V

+1.6 — R5356 1.5K

Q5344B

R5391 120 — C5390 0.2

+6.3V — C5391 .05

D5391 6.2V

D5390 12.6V

D5392 SEL

D5393 SEL

R5393 18

(CH.A) V5323 12 10 — (CH.B) V5323 12 10 — (CH.C) V5323 12 10 — (CH.D) V5323 12 10

V5374 3 4 — V5364 3 4 — V5383 4 5 9

R5390 2K — C5392 0.1 — C5395 0.1

+75V @ 150ma

+100V — R5392 5.6K — +50V

+100V — R5394 3.3K — +69V — C5394 .02

SW 6367 (CHANNEL SWITCHING CIRCUIT)

-150V — C5396 .01

+100V — C5397 .01

+225V

* SELECTED..... (SEE PARTS LIST)

TO R6365 (CHANNEL SWITCHING CIRCUIT)

INTERCONNECTING PLUG

1 2 >4 >5 >6 >7 >8 9 10 11 3 >12 >13 >14 >15 >16

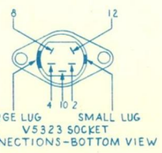
WAVEFORMS and VOLTAGE READINGS obtained under the following conditions:

TEST OSCILLOSCOPE
- Time/Cm ..... 0.5 msec/cm
- Volts/Cm ..... See waveforms

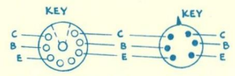
M UNIT

Voltages:
- MODE (Channel A) ..... DC NORM
- MODE (Channels B, C, and D) ..... OFF
- VAR. GAIN (All channels) ..... CALIB.
- POSITION ..... Midrange
- ALTERNATE/CHOPPED ..... ALTERNATE

Waveforms:
- VOLTS/CM 0.5
- MODE ..... DC NORM
- VAR. GAIN ..... CALIB.
- POSITION ..... Midrange
- ALTERNATE/CHOPPED ..... ALTERNATE



V5323 SOCKET CONNECTIONS-BOTTOM VIEW



8-PIN MINIATURE SOCKET SP8481

BASE DIAGRAM FOR Q5344 CONNECTIONS

X2½: C5308A 2.2 — C5308B 2-8 — R5308C 600K — C5308C 5.5-18 — R5308E 666.6K

X5: C5309B 5.5-18 — R5309C 800K — C5309C 0.7-3 — R5309E 250K

X10: C5310A 6.8 — C5310B 5.5-18 — R5310C 900K — C5310C 0.7-3 — R5310E 111K — C5310E SEL.

X100: C5313A 8 — C5313B 5.5-18 — R5313C 990K — C5313C 0.7-3 — R5313E 10.1K — C5313E 250

ATTENUATOR DETAILS

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

SEE PARTS LIST FOR EARLIER VALUES AND S/N CHANGES OF PARTS MARKED WITH BLUE OUTLINE

S/N 2760-UP

MRH 1068

TYPE M PLUG-IN UNIT

H

4 CHANNEL SWITCHED AMPLIFIER

4 CHANNEL SWITCHED AMPLIFIER