SHEET INDEX

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CIRCUIT NOTES-

101. LEADS DESIGNATED P(N) SHALL NOT BE CONNECTED UNLESS OTHERWISE SPECIFIED.

102. THESE LEADS SHOULD NOT BE PARALLEL WITH +4 OR +12 OR -12.

103. CAPACITOR C301A,B IS AN ADJUSTABLE TUNING CAPACITOR. ADJUSTMENT IS ACCOMPLISHED BY AN ABRASIVE PROCESS DURING MANUFACTURE TO PRODUCE THE PROPER CLOCK SIGNAL AT PIN 2 OF THE Z101 NETWORK.

104. OPTIONS A, B, & C ARE NOT USED ON ISSUE 1, 2 OR 3.

105. USE A 237A RESISTOR IN PLACE OF A 254A WHENEVER PRINTED WIRING PATHS CAN COME IN CONTACT WITH COMPONENT.

EQUIPMENT NOTES-

201. DESIGNATIONS SHOWN IN BRACKETS [ ] SHALL APPEAR ON EQUIPMENT.

202. P104 AND P105 ARE PART OF PRINTED WIRING BOARDS.

203. PRINTED WIRING BOARD FINGER CONTACTS 23 AND 48 ARE RESERVED FOR KEYING ON P104.

204. PRINTED WIRING BOARD FINGER CONTACTS 8 AND 33 ARE RESERVED FOR KEYING ON P105.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN FICOFARADS,
VALUES PRECEDED BY + (PLUS) OR - (MINUS) ARE IN VOLTS.

DWG ISSUE	EE OR CD ISSUED	DATE ISSUE	Chkd	APPD
1	1	11-19-71	DSF FAC	DAT JBS VAM
2A	1 APP 1A	10-17-72	FAC	JBS VAM
3B	1 APP 2B	10-17-72	FAC	JBS VAM

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD	
3B	X	Y		X		Y	

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J98718AB

ISSUE 3

SD-3C106-01 IN22

COMMON SYSTEMS
24 CHANNEL PCM BANK TYPE D3
RECEIVE CIRCUIT
(2)

AT&TCO STANDARD

SD-3C106-01-1
4 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED 6S

FS 3
RECEIVING TALK CIRCUIT
(SEE NOTE 03)

Z101
ED 3C362-30
C301A 140pF
C301B 70pF
T301
12G
RTK1
RTK2
TO FS1

FS 1
RECEIVE DIGITAL CIRCUIT

SEE NOTE 202
(P104)

IC101 RFA-1 116B HIC
SEE NOTE 101

IC102 RFB-1 116C HIC
SEE NOTE 101

IC103 RDG-1 116K HIC
SEE NOTE 101

IC104 RC-1 519D HIC
SEE NOTE 101

IC105 RSM-1 116J HIC
SEE NOTE 101

IC106 RDD-1 116D HIC
SEE NOTE 101

J102 [RNFAL]
J101 [GRD]
4G

T102
R101 200Ω
R102 200Ω
C101 220 pF
R103 123Ω
CR101
C102 35 UF
RV101
RV102
RV103
R104 196Ω
C103 60uF
C105 150 pF
C104 0.56UF

(50) RNFAL -TO ACU
(16) J1 -
(15) R1 - TO ACU
(39) +12 -
(38) 12G - TO PCU
(11,37) +4 -
(12,36) 4G - TO PCU
(13) -12 -
(17) RCCL -TST POINT
(9) REF3-TO ACU
(10) RNMD-TO CU &TMU
(27) RNCL-TO TMU, IFU
SEE NOTE 102
(5) RPSS-TO TMU &ACU
(4) RIEL-TO IFU&ACU
(29) RIFC-TO IFU
(6) RNFB
(35) RNSB
(8) RNSA
(7) RNSC
(33) RNFA - TO CU
(31) RIFD-TO IF
(3) RQ14I-TO TMU
(2) RNFC-TO TMU,CU CGU, IFU
SEE NOTE 102
(28) RLC-TO TMU
(47) RCT -
(46) RQ12I-TO TMU,
(45) RQ12S-TO TMU,ACU
(49) RPSL-TO TMU
26 FACE PLATE FR GRD
12G (34) 12G

TO FS3
TO FS1
TO FS 2
SEE APPLICATION SCHEMATIC SD-3C104-01

PART OF P1 (22) 4G
(24) RCC - TO RCC HIC
(4) RNPT - TO RPAM HIC
(23) RQ13 - TO RCC HIC
(25) RCI
(5) BSRT - TO TPAM-HIC
(2) RNP (32) RMP (6) RWD2 (22) RB2 (7) RWD3 (23) RB3 (8) RWD4 (24) RB4 (9) RB5 (10) RB6 (11) RB7 (12) RB8 (13) RB9 (14) RB10 (15) RB11 - TO RPAM HIC, TO RCT HIC
(21) RQ14 - TO RCC HIC
(20) RQ12 - TO RCT HIC
(1) RCO - TO RCT HIC

ISSUE 3B

24 CHANNEL PCM BANK TYPE D3
RECEIVE CIRCUIT

SD-3C106-01-2

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6S

SD-3C106-01-2

FS 2

RECEIVE ANALOG CIRCUIT

IC201 RWNL-1 530A HIC 530D HIC

IC202 RWNS-1 520C HIC

IC203 RWNCS-1 5208 HIC

IC204 RPAM-A 5200 HIC

IC205 RCT-1 116E HIC

IC206 RPAM-B 520E HIC

IC207 RCC-3 116A HIC

SEE NOTE 101

SEE NOTE 104

SEE NOTE 202 P105

RV203 RV202 RV201

CR202 CR204 CR205 CR206 CR201

R202 100Ω

R203 150 Ω

R204 R205 R206 30.1K R207 R208 4.64K R209 7.77K R210 4.64K R211 7.77K R212 120 R213 10K R214 2.15K R215 390Ω R216 1.2K R201 271Ω

C201 35uF C202 35uF C203 60uF C204 .01uF C205 0.1uF C206 0.1uF C207 .01uF C208 0.56uF C209 0.56uF C210 0.56uF C211 25uF C212 25uF C213 0.56uF C214 33.2pF C215 30.1pF C216 0.56uF C218 0.1uF C219 10pF

TNB2A

PART OF J1

TO RECEIVE DIGITAL CIRCUITRY

TO RSM HIC

TO RDD HIC

TO RDD HIC

TO RDG HIC

TO RDG HIC

TO RSM HIC

TO FS-1

TO CUS & TMU

TO PCU

TO CU'S

FACE PLATE

FR GRD

SEE APPLICATION SCHEMATIC SD-3C104-01

DRAWING ISSUE

ISSUE 3B

24 CHANNEL PCM BANK TYPE D3
RECEIVE CIRCUIT

2

SD-3C106-01-3

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-3C106-01-3

APP FIG. 1
FOR FS 1

CAPACITOR

DESIG	LOC	CODE
C101	2A8	KS-19774,L1, 220pF
C102	2B7	KS-16390,L16, 35uF
C103	2C8	KS-16390,L5, 60uF
C104	2F8	KS-19107,L3,0.56uF
C105	2D5	KS-16958,L27, 150pF

DIODE

DESIG	LOC	CODE
CR101	2B8	446B

INTEGRATED CIRCUIT

DESIG	LOC	CODE
IC101	2C1	116B
IC102	2F1	116C
IC103	2E3	116K
IC104	2B7	5190
IC105	2D7	116J
IC106	2G6	116D

P/B ASSEMBLY

DESIG	LOC	CODE
Z101	2B5	ED-3C362-30

RESISTOR

DESIG	LOC	CODE
R101	2A8	254A, 200 Ω
R102	2A8	254A, 200 Ω
R103	2B3	KS-20810,L1A,123Ω
R104	2C8	KS-20810,L1A,196Ω

TRANSFORMER

DESIG	LOC	CODE
T101	2A7	2662B

VARISTOR

DESIG	LOC	CODE
RV101	2B8	100D
RV102	2B8	100D
RV103	2B8	106A

TEST POINTS

DESIG	LOC	CODE
J101	2A3	KS-20667,L9
J102	2B4	KS-20667,L10

PLUG

DESIG	LOC	CODE
P1	2A8	KS-16671,L10

APP FIG. 2
FOR FS 2

CAPACITOR

DESIG	LOC	CODE
C201	3B8	KS-.6390,L16,35uF
C202	3C8	KS-16390,L16,35uF
C203	3D8	KS-16390,L5,60uF
C204	3E2	KS-19107,L1,0.01uF
C205	3F1	KS-19107,L1,0.1uF
C206	3C1	KS-19107,L1,0.1uF
C207	3C2	KS-19107,L1,0.01uF
C208	3C6	KS-19107,L3,0.56uF
C209	3C6	KS-19107,L3,0.56uF
C210	3C6	KS-19107,L3,0.56uF
C211	3B5	601C,25 uF
C212	3C5	601C,25 uF
C213	3C7	KS-19107,L3,0.56uF
C214	3A6	KS-16958,L35,33.2pF
C215	3A7	KS-16958,L35,30.1pF
C216	3C7	KS-19107,L3,.56uF
C218	3C6	KS-19107,L1,0.1uF
C219	3A7	~~KS-16958,L...,10pF~~ KS-16958,L26,10pF

CONNECTOR

DESIG	LOC	CODE
J1	3B8	KS-16672,L13

DIODE

DESIG	LOC	CODE
CR201	3C8	459B
CR202	3A1	459B
CR204	3A4	458C
CR205	3A4	458C
CR206	3F3	459J

INTEGRATED CIRCUITS

DESIG	LOC	CODE
IC201	3B1	~~530A~~ 5300
IC202	3D1	520C
IC203	3F1	520B
IC204	3B4	520D
IC205	3D4	116E
IC206	3B6	520E
IC207	3E7	116A

RESISTOR

DESIG	LOC	CODE
R201	3C8	KS-20810,L1A,271
R202	3E1	254A,100Ω
R204	3A5	254A OPTION (B)
R205	3A5	254A OPTION (A)
R206	3A4	254A ,30.1K
R207	3A4	254A OPTION (C)
R208	3B5	254A,4.64KΩ
R209	3B5	254A; 7.77K
R210	3B5	254A,4.64KΩ
R211	3B5	254A; 7.77K
R212	3D6	KS-20200,L1,120Ω
R213	3A3	254A 10K
R214	3A6	254A,2.15KΩ
R215	3B7	KS-20200,L1,390Ω
R216	3E3	KS-16645,L1,1.2K

VARISTOR

DESIG	LOC	CODE
RV201	3C7	100A
RV202	3B3	100A
RV203	3A1	100G

POTENTIOMETER

DESIG	LOC	CODE
R203	3B1	KS-19055L4 , 150 Ω (X) KS-19055,L3, 150Ω (Y)

APP FIG. 3
FOR FS 3

CAPACITOR

DESIG	LOC	CODE
C301A C301B	2A1	KS-20504,L1 — 140 pF 70 pF

TRANSFORMER

DESIG	LOC	CODE
T301	2B1	2660A

DRAWING ISSUE

ISSUE 3B

24 CHANNEL PCM BANK TYPE D3
RECEIVE CIRCUIT

(2) SD-3C106-01-4

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SD-3C106-01-4