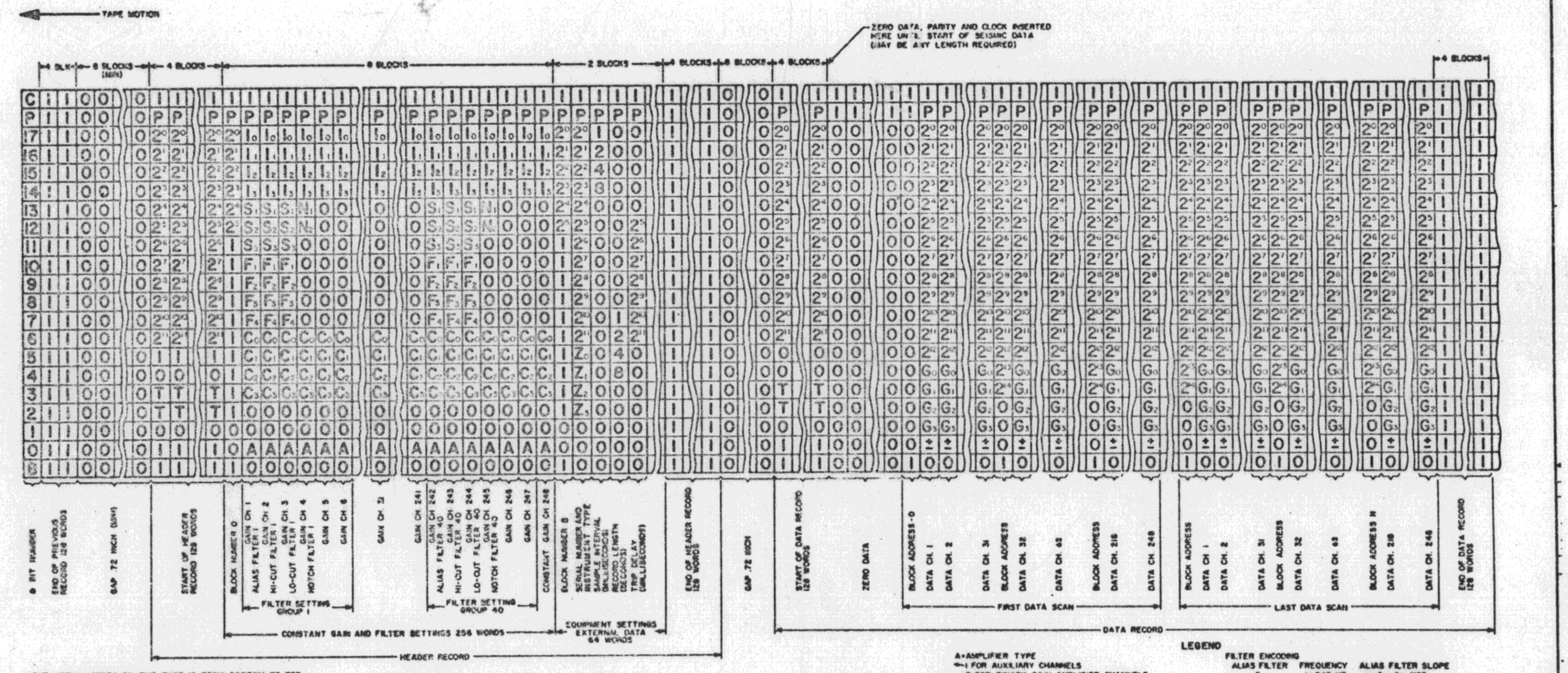
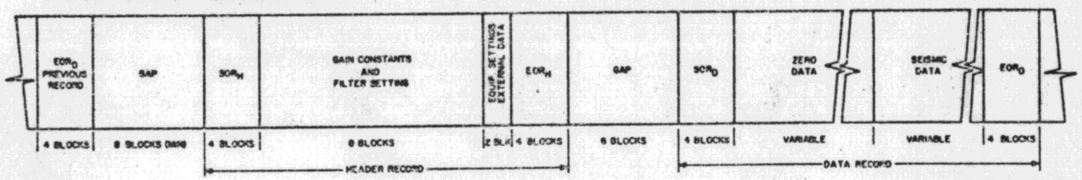
GSI-709



* THE ACTUAL ORDER ON THE TAPE IS FROM BOTTOM TO TOP 16, 14, 12, 10, 8, 6, 4, B, 2, 0, C, 1, 3, P, 5, 7, 9, 11, 13, 15, 17, (OXIDE UP). BIT 16 IS IN TRACK 1 AND BIT 17 IS IN TRACK 21.



LEGEND

A = AMPLIFIER TYPE
- 1 FOR AUXILIARY CHANNELS
- 0 FOR BINARY GAIN AMPLIFIER CHANNELS

B = BLOCK BIT
- 1 FOR START OF RECORD, END OF RECORD AND BLOCK ADDRESS WORDS
- 0 FOR DATA WORDS

C = CLOCK BIT - 1 FOR ALL WORDS

P = PARITY BIT (ODD)
1 IF BITS 0 THROUGH 17 CONTAIN AN EVEN NUMBER OF 1'S

T = RECORD TYPE
- 1 FOR TEST OR CALIBRATION RECORD
- 0 FOR DATA RECORD

± = SIGN BIT
- 0 PLUS
- 1 MINUS

2^N = DATA BITS 2^0 REPRESENTS 0.5 MV
BLOCK ADDRESS 2^0 REPRESENTS 1 MS
BLOCK NUMBER 2^0 REPRESENTS 1
FILTER SETTINGS ARE ENCODED FOR SIX CHANNEL FILTER GROUPS. 1 BLOCK MAY CONTAIN UP TO 5 FILTER GROUPS.

Z = INSTRUMENT TYPE
0000 = BINARY GAIN

FILTER ENCODING

ALIAS FILTER	FREQUENCY	ALIAS FILTER SLOPE
F_1	1 = 248 HZ	S_1 - S_3 NOT
F_2	1 = 124 HZ	USED 0'S RECORDED
F_3	1 = 62 HZ	
F_4	1 = 31 HZ	

HIGH CUT FILTER FREQUENCY AND SLOPE NOT USED 0'S RECORDED F_1 - F_4 AND S_1 - S_3

LOW CUT FILTER	FREQ	LOW CUT FILTER SLOPE
F_1	1 = 27 HZ	S_1 1 = OUT
F_2	1 = 18 HZ	S_2 1 = 18 db/OCTAVE
F_3	1 = 12 HZ	S_3 1 = 36 db/OCTAVE
F_4	1 = 8 HZ	

NOTCH FILTER
N_1 1 = NOTCH FILTER IN
N_2 1 = NOTCH FILTER OUT

GAIN ENCODING

CONSTANT GAIN		BINARY GAIN		INITIAL GAIN	
C_0	1 = 6 db	G_0	1 = 6 db	I_0	1 = 6 db
C_1	1 = 12 db	G_1	1 = 12 db	I_1	1 = 12 db
C_2	1 = 24 db	G_2	1 = 24 db	I_2	1 = 24 db
C_3	1 = 48 db	G_3	1 = 40 db	I_3	1 = 48 db

PROJ NO	SIZE	NEXT ASSY. NO	QTY	DASH NO.
453	A	223000-9901	REF	9901

UNLESS OTHERWISE SPECIFIED
DECIMAL XX ± .02 XXX ± .010
FRACTIONAL ± 1/64 ANGULAR ± 1°
CONCENTRICITY MACHINED DIAMETERS .004 TIR
ALL DIMENSIONS TO BE MET BEFORE PLATING
REMOVE ALL BURRS AND SHARP EDGES
DO NOT SCALE THIS DRAWING
ALL DIMENSIONS IN INCHES
SURFACES MARKED ✓ TO HAVE ✓

DRILLED HOLE TOLERANCES
.013 TO .136 +.003 -.002 .136 TO .250 +.005 -.003
.250 AND ABOVE ± .003

DRAFTSMAN
CKD DRAFTSMAN
DESIGN ENGINEER
APPD. ENG.
APPD. PROJECT ENGR.
RELEASE

TEXAS INSTRUMENTS INCORPORATED
APPARATUS DIVISION HOUSTON TEXAS

21 TRACK TAPE FORMAT

SDFS III

SCALE NONE | D | DRAWING NUMBER 225461 | REV A

PLATE 5

081079

5 cm