

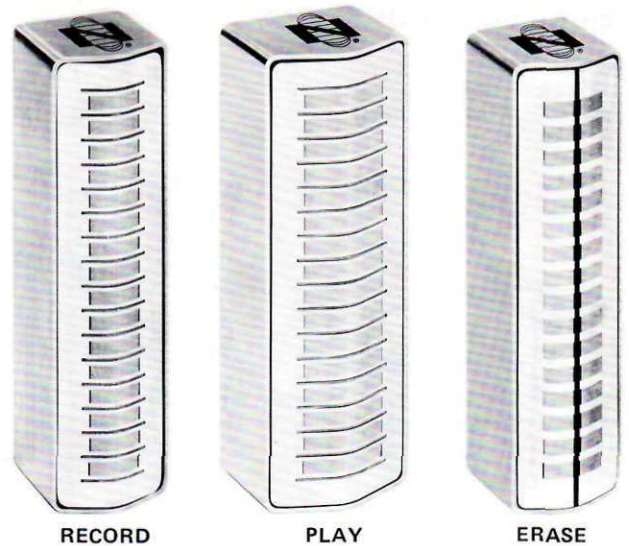
# DESIGN DATA

NORTRONICS

## AUDIO HEADS

### STUDIO SERIES 16 Channel 2" Tape

- FERRITE CORE ERASE CONSTRUCTION ASSURES 70 DB ERASURE
- HI-MU CASES FOR MAXIMUM SHIELDING
- ALL METAL CONSTRUCTION WITH SILICON-MONOXIDE GAPS ASSURES SUPERIOR RESPONSE AND HEAD LIFE WITH NO PHASE DISTORTION
- LAMINATED CROSSTALK SHIELDING FOR MAXIMUM ISOLATION—ALLOWS SIMULTANEOUS RECORD AND PLAY ON ADJACENT CHANNELS



16 CHANNEL STUDIO SERIES HEADS

MODEL NUMBERS	ERASE		RECORD		PLAY		
	STE-16BN12	STE-16BN6	STR-16BN18	STR-16BN7	STP-16B3	STP-16B23	STP-16B8
Inductance @ 10 MV-1 kHz		170 $\mu$ HY					
Inductance @ 50 MV@1 kHz	1.5 MHY						
Inductance @ 100 MV-1 kHz*			4.0 MHY	4.0 MHY	300 MHY	8 MHY	650 MHY
D. C. Resistance	18 Ohms	3.0 Ohms	13 Ohms	40 Ohms	270 Ohms	15 Ohms	820 Ohms
1 kHz Impedance			30 Ohms	47 Ohms	2230 Ohms	50 Ohms	4000 Ohms
120 kHz Impedance	800 Ohms						
Gap Length (Inches)	.003	.003	400 Micro	500 Micro	100 Micro	200 Micro	200 Micro
Track Width (Inches)	.080	.080	.070	.070	.070	.070	.070
Track Spacing Center to Center (Inches)	.127	.127	.127	.127	.127	.127	.127
TYPICAL OPERATING CHARACTERISTICS USING 3M-201 TAPE, BIASED FOR PEAK 1 KHZ OUTPUT AND RECORDED AT A LEVEL OF 12 DB BELOW TAPE SATURATION FOR 1 KHZ.							
TYPICAL ERASE CHARACTERISTICS USING 3M-201 TAPE FOR A MINIMUM 70 DB ERASURE OF A 400 HZ SATURATION SIGNAL.							
Erase Voltage 120 kHz RMS @ 7.5 IPS	35 Volts						
Erase Voltage 60 kHz RMS @ 7.5 IPS		5 Volts					
Erase Current 120 kHz @ 7.5 IPS	28 MA						
Erase Current 60 kHz @ 7.5 IPS		80 MA					
Saturation Voltage 60 kHz		10.0 Volts					
Saturation Current 60 kHz		160 MA					
Peak Bias Voltage 120 kHz RMS @ 7.5 IPS			10 Volts				
Peak Bias Voltage 120 kHz RMS @ 15 IPS			11 Volts				
Peak Bias Voltage 180 kHz RMS @ 7.5 IPS				16 Volts			
Bias Current 120 kHz @ 7.5 IPS			9.5 Volts				
Bias Current 120 kHz @ 15 IPS			10 Volts				
Bias Current 180 kHz @ 7.5 IPS				5.3 MA			
Audio Record Current @ 7.5 IPS			.33 MA	.375 MA			
Audio Record Current @ 15 IPS			.34 MA				
1 kHz Reproduce Output @ 7.5 IPS			.30 MV		1.7 MV	.30 MV	2.9 MV
1 kHz Reproduce Output @ 15 IPS			.34 MV		2.1 MV	.35 MV	3.2 MV
10 kHz Playback Output RE 1 kHz @ 7.5 IPS			-1 dB		+3 dB	+1.0 dB	+3.0 dB
10 kHz Playback Output RE 1 kHz @ 15 IPS			-6 dB		+10 dB	+8.0 dB	+10.0 dB
15 kHz Playback Output RE 10 kHz @ 7.5 IPS					-4 dB	-5.0 dB	-4.0 dB
15 kHz Playback Output RE 10 kHz @ 15 IPS					-1.5 dB	-1.0 dB	-1.5 dB

\*7 MHY RECORD AND 70 MHY PLAYBACK MODELS ALSO AVAILABLE.