



RECORD



PLAY

STUDIO SERIES 4 Channel 1/2" 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

4 CHANNEL STUDIO SERIES HEADS

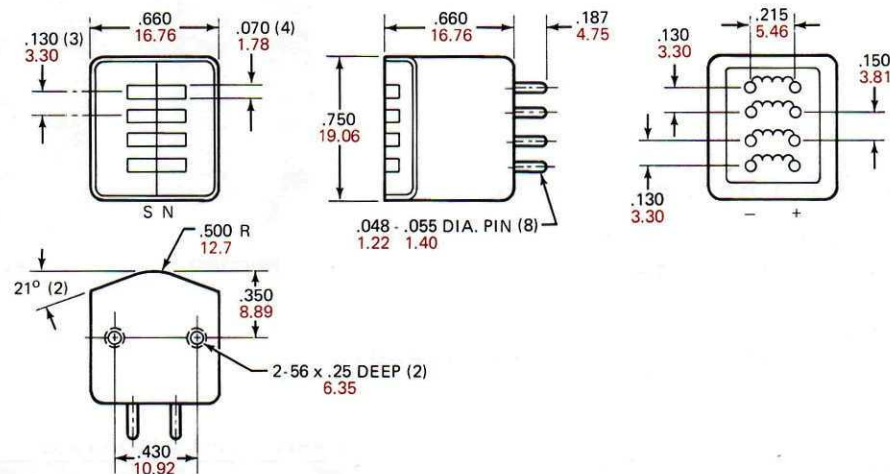
MODEL NUMBERS	ERASE		RECORD		PLAY		
	STE-4B12	STE-4B6	STR-4BN18	STR-4BN7	STP-4B32	STP-4B8	STP-4B23
Inductance @ 10 MV—1 kHz		170 μ HY					
Inductance @ 50 MV—1 kHz	1.5 MHY						
Inductance @ 100 MV—1 kHz *			4.0 MHY	4.0 MHY	100 MHY	650 MHY	8 MHY
D. C. Resistance	18 Ohms	3.0 Ohms	13 Ohms	40 Ohms	150 Ohms	650 Ohms	15 Ohms
1 kHz Impedance			30 Ohms	47 Ohms	70 Ohms	4000 Ohms	50 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)	.130	.130	.130	.130	.130	.130	.130
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			5.6 MA				
Bias Current 120 kHz @ 15 IPS			6.0 MA				
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		0.9 MV	2.9 MV	.30 MV
1 kHz Reproduce Output @ 15 IPS			.34 MV		1.1 MV	3.2 MV	.35 MV
10 kHz Playback Output RE 1 kHz @ 7.5 IPS			—1 dB		+3 dB	+3.0 dB	+1.0 dB
10 kHz Playback Output RE 1 kHz @ 15 IPS			—6 dB		+10 dB	+10.0 dB	+8.0 dB
15 kHz Playback Output RE 10 kHz @ 7.5 IPS					—4 dB	—4.0 dB	—5.0 dB
15 kHz Playback Output RE 10 kHz @ 15 IPS					—1.5 dB	—1.5 dB	—1.0 dB

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

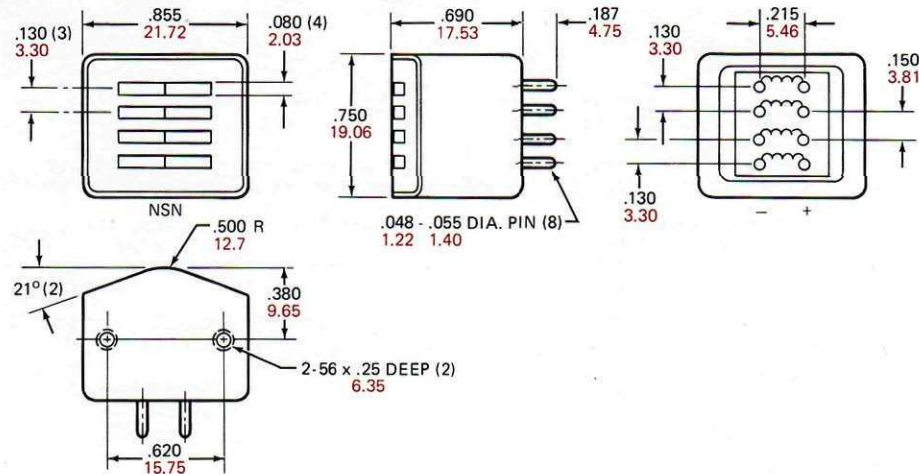
PHYSICAL CONFIGURATIONS

NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR

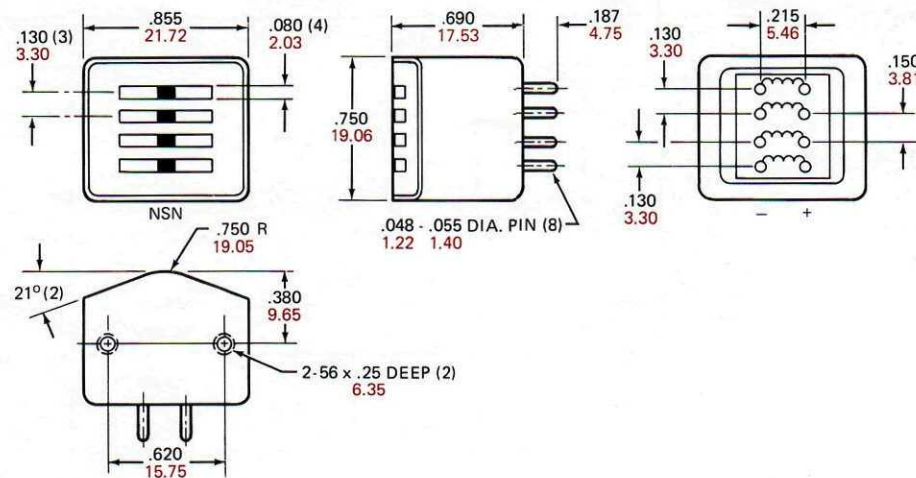
RECORD



PLAY



ERASE



STUDIO SERIES 8 Channel 1" Tape

- FERRITE CORE ERASE CONSTRUCTION ASSURES 70 DB ERASURE
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- LAMINATED CROSSTALK SHIELDING FOR MAXIMUM ISOLATION—ALLOWS SIMULTANEOUS RECORD AND PLAY ON ADJACENT CHANNELS



RECORD



PLAY



ERASE

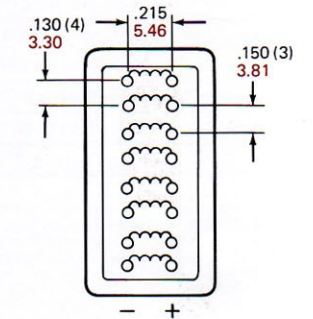
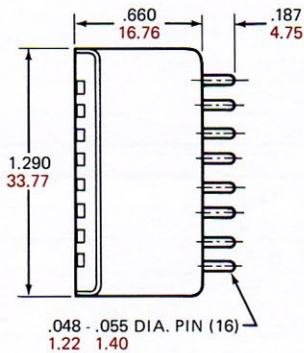
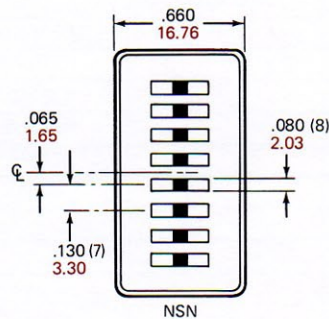
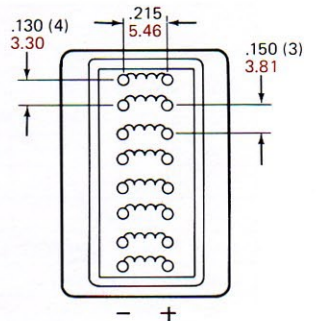
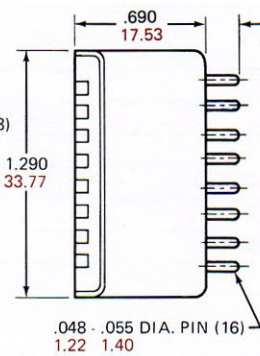
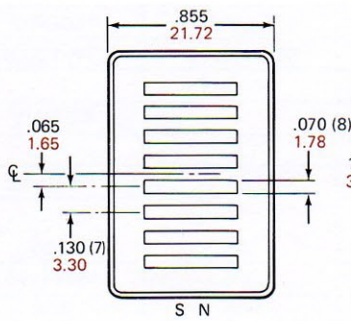
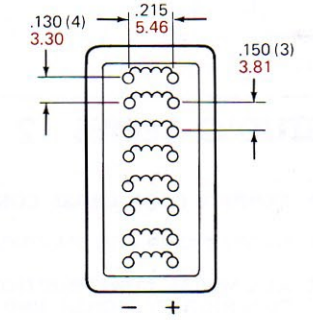
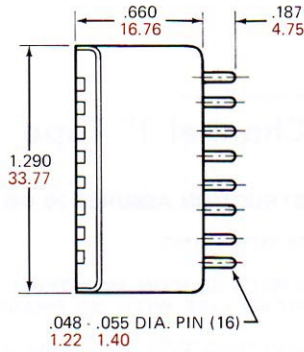
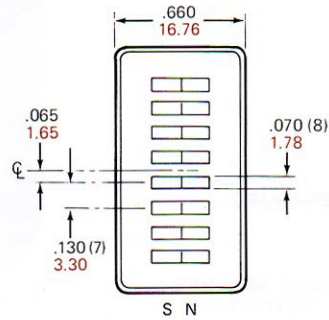
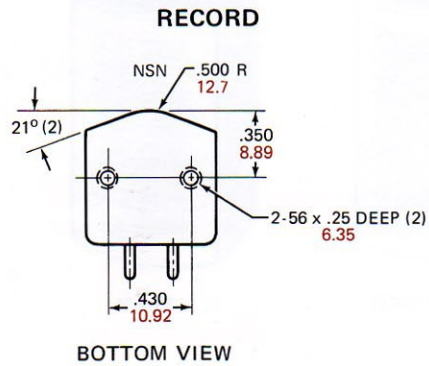
8 CHANNEL STUDIO SERIES HEADS

MODEL NUMBERS	ERASE		RECORD		PLAY		
	STE-8BN12	STE-8BN6	STR-8BN18	STR-8BN7	STP-8B32	STP-8B8	STP-8B23
Inductance @ 10 MV—1 kHz		170 μ HY					
Inductance @ 50 MV—1 kHz	1.5 MHY						
Inductance @ 100 MV—1 kHz *			4.0 MHY	4.0 MHY	100 MHY	650 MHY	8 MHY
D. C. Resistance	18 Ohms	3.0 Ohms	13 Ohms	40 Ohms	150 Ohms	650 Ohms	15 Ohms
1 kHz Impedance			30 Ohms	47 Ohms	700 Ohms	4000 Ohms	50 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)	.130	.130	.130	.130	.130	.130	.130
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			5.6 MA				
Bias Current 120 kHz @ 15 IPS			6.0 MA				
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		0.9 MV	2.9 MV	.30 MV
1 kHz Reproduce Output @ 15 IPS			.34 MV		1.1 MV	3.2 MV	.35 MV
10 kHz Playback Output RE 1 kHz @ 7.5 IPS			-1 dB		+3 dB	+3.0 dB	+1.0 dB
10 kHz Playback Output RE 1 kHz @ 15 IPS			-6 dB		+10 dB	+10.0 dB	+8.0 dB
15 kHz Playback Output RE 10 kHz @ 7.5 IPS					-4 dB	-4.0 dB	-5.0 dB
15 kHz Playback Output RE 10 kHz @ 15 IPS					-1.5 dB	-1.5 dB	-1.0 dB

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

PHYSICAL CONFIGURATIONS

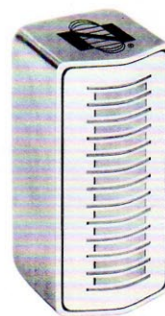
NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR



NOTE: For Head Mounts see Page 23.

STUDIO SERIES 12 Channel 1" Tape

- FERRITE CORE ERASE CONSTRUCTION ASSURES 70 DB ERASURE
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- LAMINATED CROSSTALK SHIELDING FOR MAXIMUM ISOLATION—ALLOWS SIMULTANEOUS RECORD AND PLAY ON ADJACENT CHANNELS



RECORD



PLAY

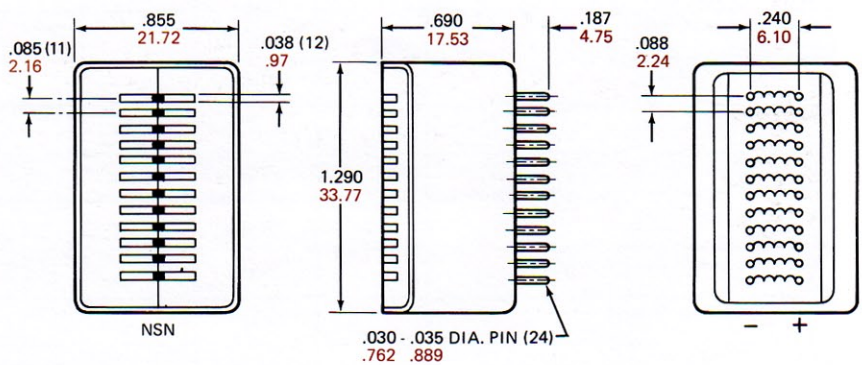
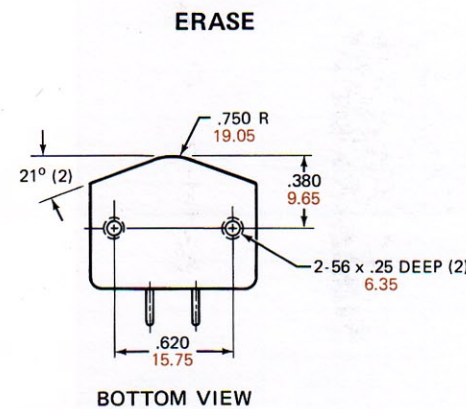
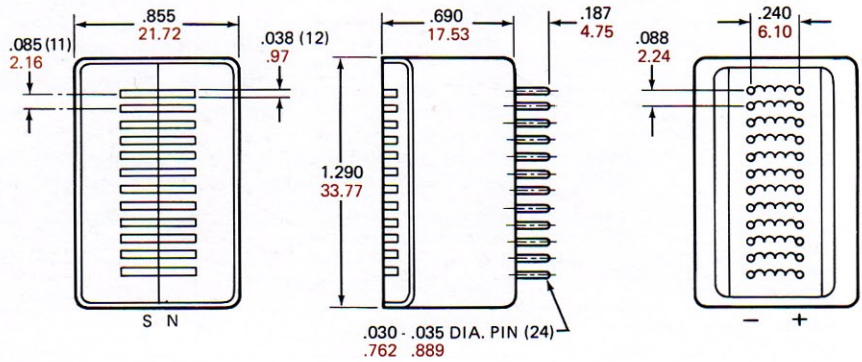
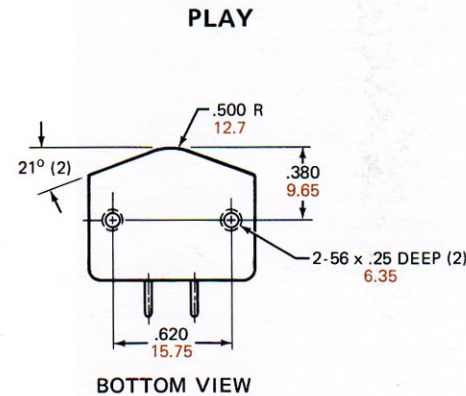
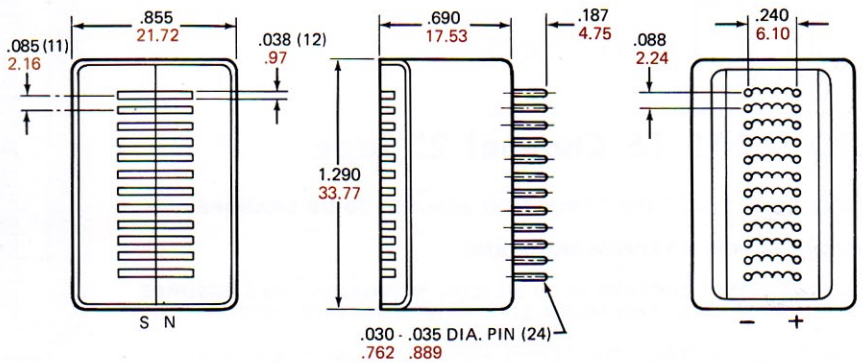
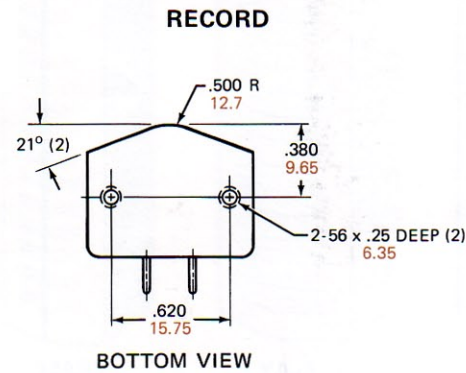
12 CHANNEL STUDIO SERIES HEADS

MODEL NUMBERS	ERASE	RECORD	PLAY	
	STE-12U19	STR-12U28	STP-12U21	STP-12U29
Inductance @ 25 MV—1 kHz	.170 MHY			
Inductance @ 50 MV—1 kHz *		4.0 MHY		
Inductance @ 100 MV—1 kHz *			650 MHY	5.0 MHY
D. C. Resistance	4.5 Ohms	15 Ohms	720 Ohms	15 Ohms
1 kHz Impedance		30 Ohms		35 Ohms
Track Spacing Center to Center (Inches)	.085	.085	.085	.085
Gap Length (Inches)	.003	400 Micro	200 Micro	200 Micro
Track Width (Inches)	.048	.038	.038	.038
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 100 kHz @ 7.5 IPS	9 Volts			
Erase Voltage 60 kHz @ 7.5 IPS	5.5 Volts			
Erase Current 100 kHz @ 7.5 IPS	8.5 MA			
Erase Current 60 kHz @ 7.5 IPS	85 MA			
Saturation Voltage 60 kHz	6.5 Volts			
Saturation Current 60 kHz	100 MA			
Peak Bias Voltage 120 kHz RMS @ 7.5 IPS		9.0 Volts		
Peak Bias Voltage 120 kHz RMS @ 15 IPS		10 Volts		
Bias Current 120 kHz @ 7.5 IPS		5.2 MA		
Bias Current 120 kHz @ 15 IPS		5.6 MA		
Audio Record Current @ 7.5 IPS		.33 MA		
Audio Record Current @ 15 IPS		.34 MA		
1 kHz Reproduce Output @ 7.5 IPS			1.7 MV	0.17 MV
1 kHz Reproduce Output @ 15 IPS				0.20 MV
10 kHz Playback Output RE 1 kHz @ 7.5 IPS			+2 dB	+1.0 dB
10 kHz Playback Output RE 1 kHz @ 15 IPS				+8.0 dB
15 kHz Playback Output RE 10 kHz @ 7.5 IPS			-4 dB	-5.0 dB
15 kHz Playback Output RE 10 kHz @ 15 IPS				-1.0 dB

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

PHYSICAL CONFIGURATIONS

NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR



STUDIO SERIES 16 Channel 2" Tape

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- LAMINATED CROSSTALK SHIELDING FOR MAXIMUM ISOLATION—ALLOWS SIMULTANEOUS RECORD AND PLAY ON ADJACENT CHANNELS



RECORD



PLAY



ERASE

16 CHANNEL STUDIO SERIES HEADS

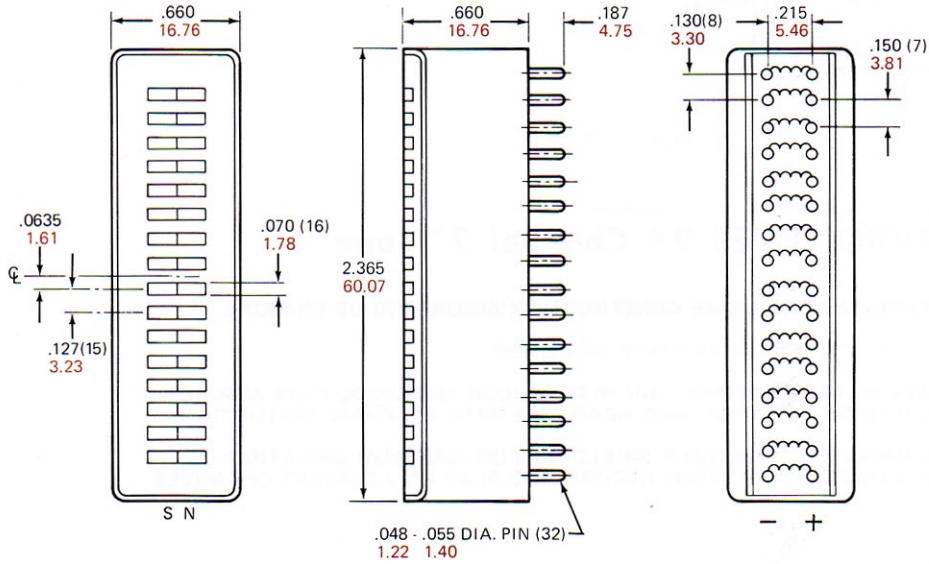
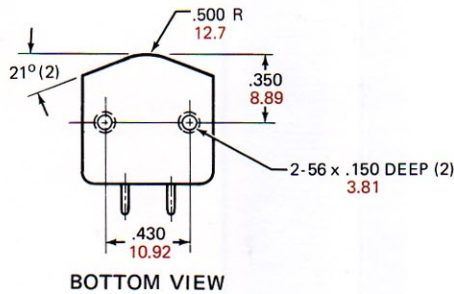
MODEL NUMBERS	ERASE		RECORD		PLAY		
	STE-16BN12	STE-16BN6	STR-16BN18	STR-16BN7	STP-16B3	STP-16B23	STP-16B8
Inductance @ 10 MV—1 kHz		170 μ HY					
Inductance @ 50 MV@1 kHz	1.5 MHY						
Inductance @ 100 MV—1 kHz*			4.0 MHY	4.0 MHY	300 MHY	8 MHY	650 MHY
D. C. Resistance	18 Ohms	3.0 Ohms	13 Ohms	40 Ohms	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.

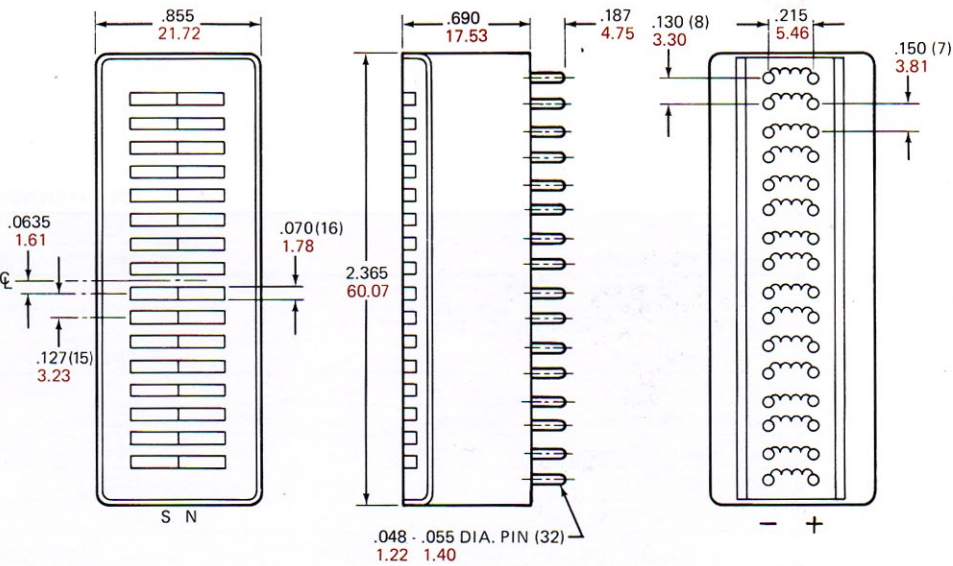
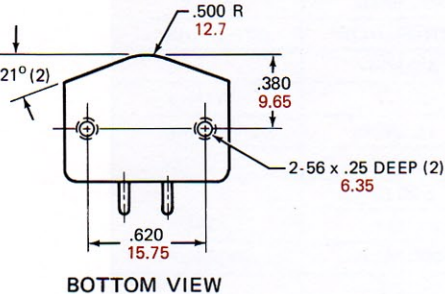
PHYSICAL CONFIGURATIONS

NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR

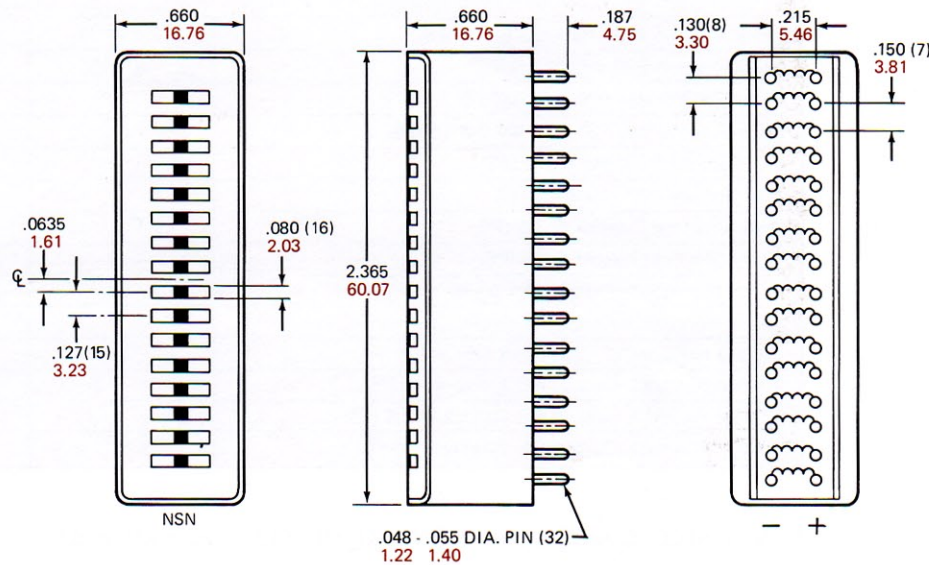
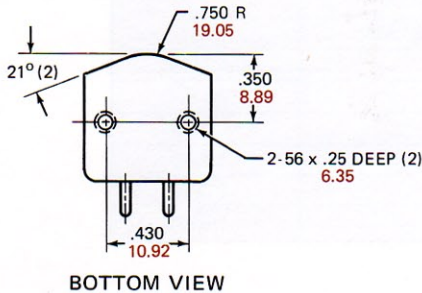
RECORD



PLAY



ERASE



NOTE: For Head Mounts see Page 13.

STUDIO SERIES 24 Channel 2" Tape

- FERRITE CORE ERASE CONSTRUCTION ASSURES 70 DB ERASURE
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PLAY

24 CHANNEL STUDIO SERIES HEADS

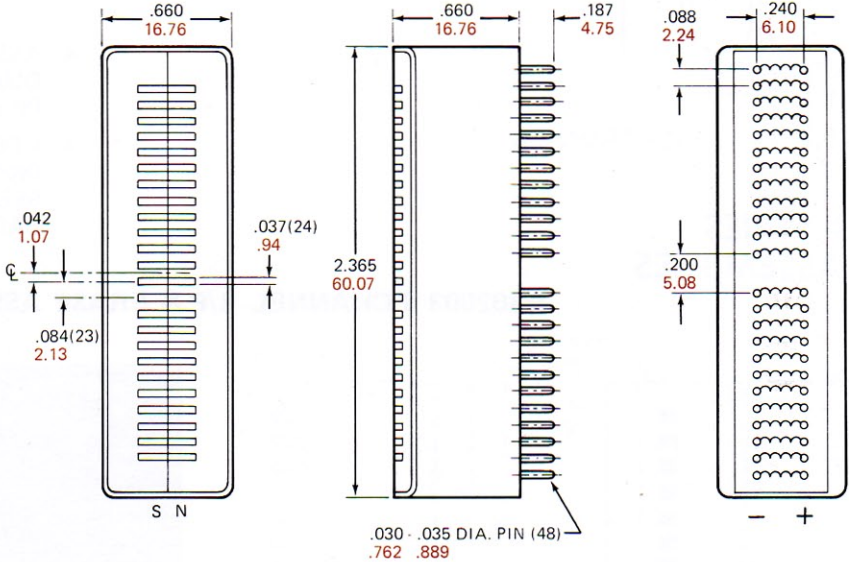
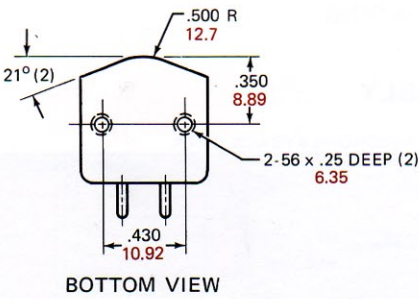
MODEL NUMBERS	ERASE	RECORD	PLAY
	STE-24UN27	STR-24UN28	STP-24U29
Inductance @ 50 MV—1 kHz *	1.0 MHY	4.0 MHY	
Inductance @ 100 MV@1 kHz *			5.0 MHY
D. C. Resistance	12 Ohms	15 Ohms	15 Ohms
1 kHz Impedance		30 Ohms	35 Ohms
120 kHz Impedance	700 Ohms	2,500 Ohms	
Track Spacing Center to Center (Inches)	.084	.084	.084
Gap Length (Inches)	.003	400 Micro	200 Micro
Track Width (Inches)	.050	.038	.038
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	22 Volts		
Erase Current 120 kHz @ 7.5 IPS	30 MA		
Peak Bias Voltage 120 kHz RMS @ 7.5 IPS		9.0 Volts	
Peak Bias Voltage 120 kHz RMS @ 15 IPS		10 Volts	
Bias Current 120 kHz @ 7.5 IPS		5.2 MA	
Bias Current 120 kHz @ 15 IPS		5.6 MA	
Audio Record Current @ 7.5 IPS		.33 MA	
Audio Record Current @ 15 IPS		.34 MA	
1 kHz Reproduce Output @ 7.5 IPS			0.17 MV
1 kHz Reproduce Output @ 15 IPS			0.20 MV
10 kHz Playback Output RE 1 kHz @ 7.5 IPS			+1.0 dB
10 kHz Playback Output RE 1 kHz @ 15 IPS			+8.0 dB
15 kHz Playback Output RE 10 kHz @ 7.5 IPS			-5.0 dB
15 kHz Playback Output RE 10 kHz @ 15 IPS			-1.0 dB

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

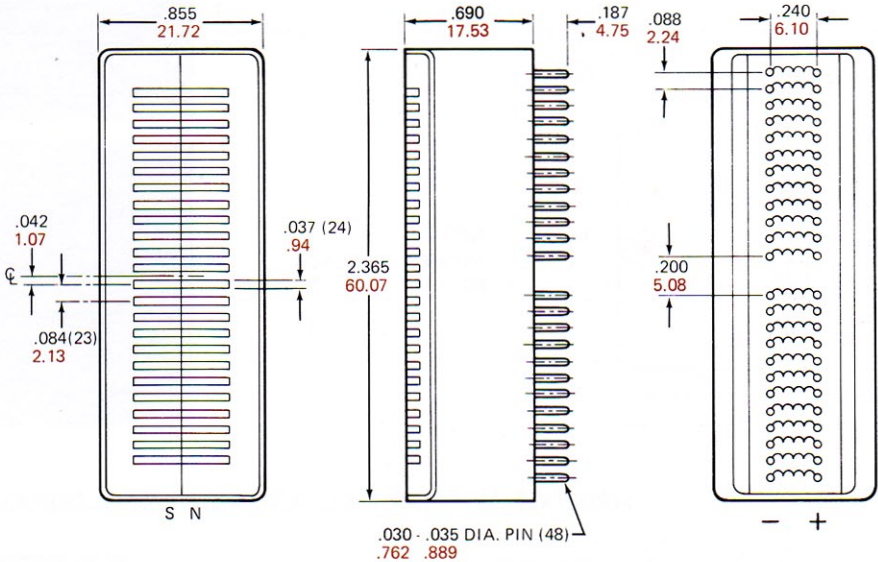
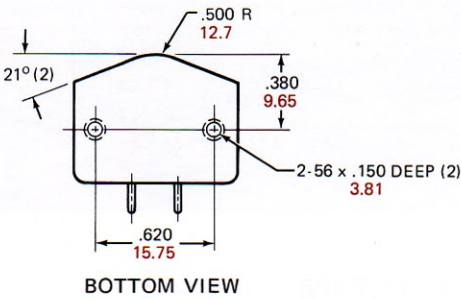
PHYSICAL CONFIGURATIONS

NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR

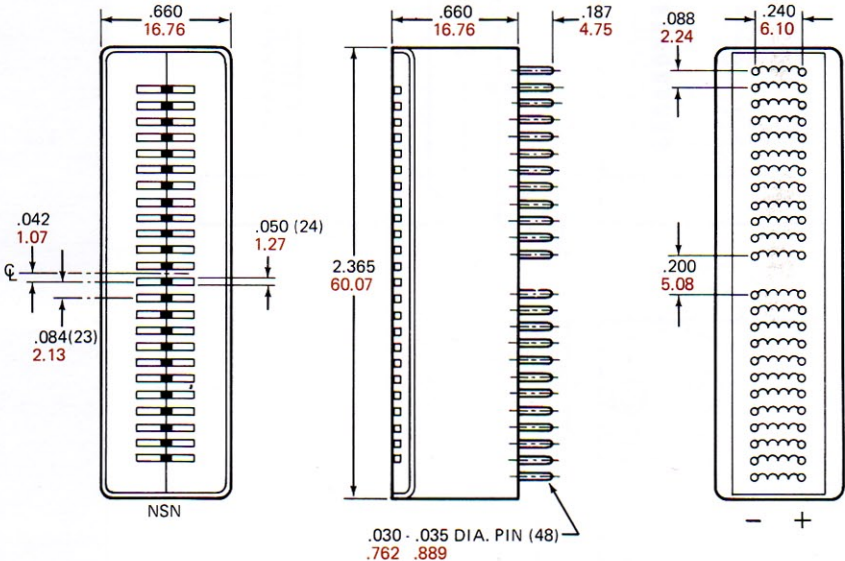
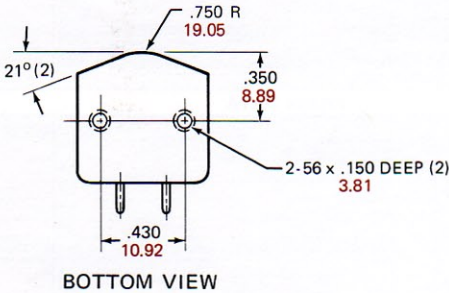
RECORD



PLAY



ERASE



NOTE: For Head Mounts see Page 23.

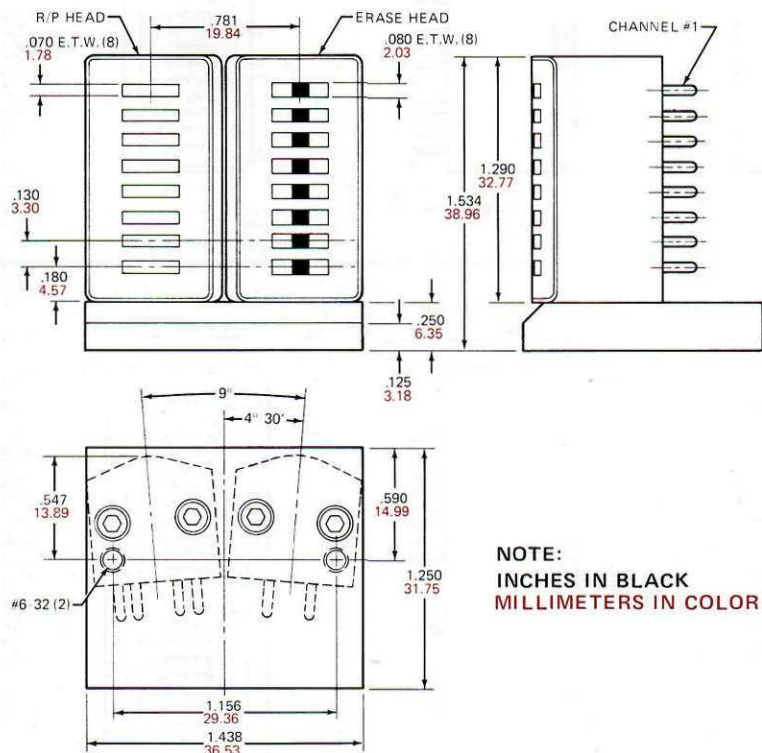
DESIGN DATA

NORTRONICS

AUDIO HEADS

STUDIO SERIES HEAD ASSEMBLIES

H802003 8 CHANNEL R/P & ERASE ASSEMBLY



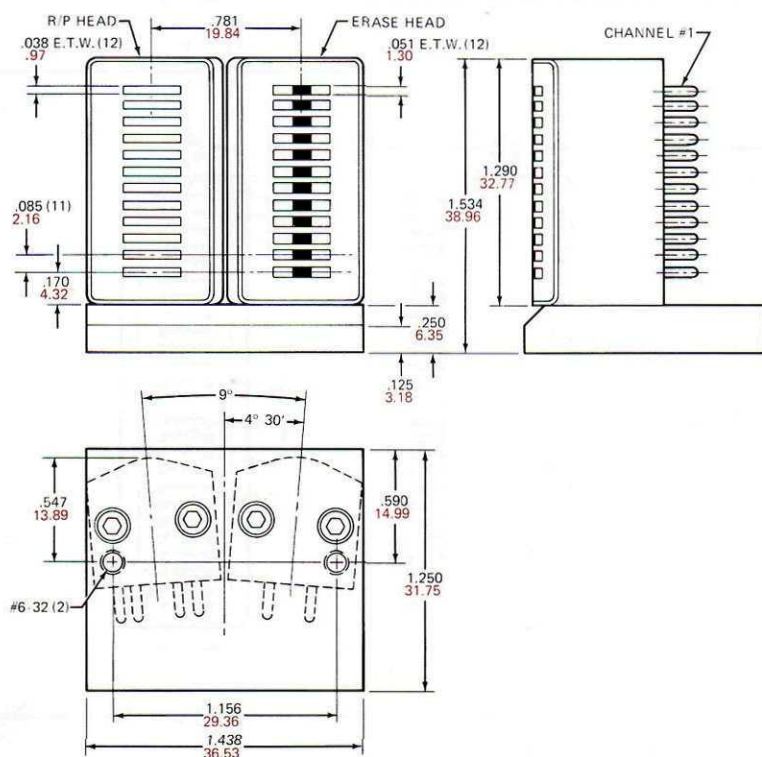
RECORD/PLAYBACK DATA

ELECTRICAL		MODEL H802003
Inductance @ 100 MV, 1 kHz, millihenrys	RECORD COIL	3.4
D.C. Resistance, ohms	RECORD COIL	35
100 kHz Impedance, ohms	RECORD COIL	2600
Inductance @ 100 MV, 1 kHz, millihenrys	PLAY COIL	50
D.C. Resistance, ohms	PLAY COIL	275
1 kHz Impedance, ohms	PLAY COIL	320
Transformer Crosstalk Play to Play, 1 kHz, dB		-50
Transformer Crosstalk Play to Play, 10 kHz, dB		-50
Gap Length, microinches		300
Track Width, inches		.070
Typical constant current record, unequalized playback characteristics on 3M 201 tape. Peak biased @ 1 kHz at a recorded level 12 dB below tape saturation @ 1 kHz		
Peak Bias Voltage, 100 kHz, volts	RMS	15 IPS
Bias Current for above, ma		8.0
Audio Record Current, ma		7.0
1 kHz Playback RE 1 kHz, MV		0.44
10 kHz Playback RE 1 kHz, dB	RMS	1.0
15 kHz Playback RE 10 kHz, dB		+9.0
		-2.0

ERASE DATA

ELECTRICAL		MODELS H802002 & H802003	
Inductance, 1 kHz @ 10 MV, millihenrys	RMS		170
D.C. Resistance, ohms			3.0
Impedance @ 60 kHz, ohms			70
Impedance @ 100 kHz, ohms			110
Track Width, inches			.080
Gap Length, inches			.003
Track Spacing, Center to Center, inches			.130
Typical characteristics for minimum of 70 dB erasure of a 400 Hz saturated signal on 3M 201 tape			
Eraser Voltage, volts	RMS	60 kHz, 7.5 IPS	100 kHz, 15 IPS
Eraser Current, ma		5.0	11.0
Saturation Voltage, volts		80	95
Saturation Current, ma		10.0	16
		160	160

H802004 12 CHANNEL R/P & ERASE ASSEMBLY, 1" TAPE



RECORD/PLAYBACK DATA

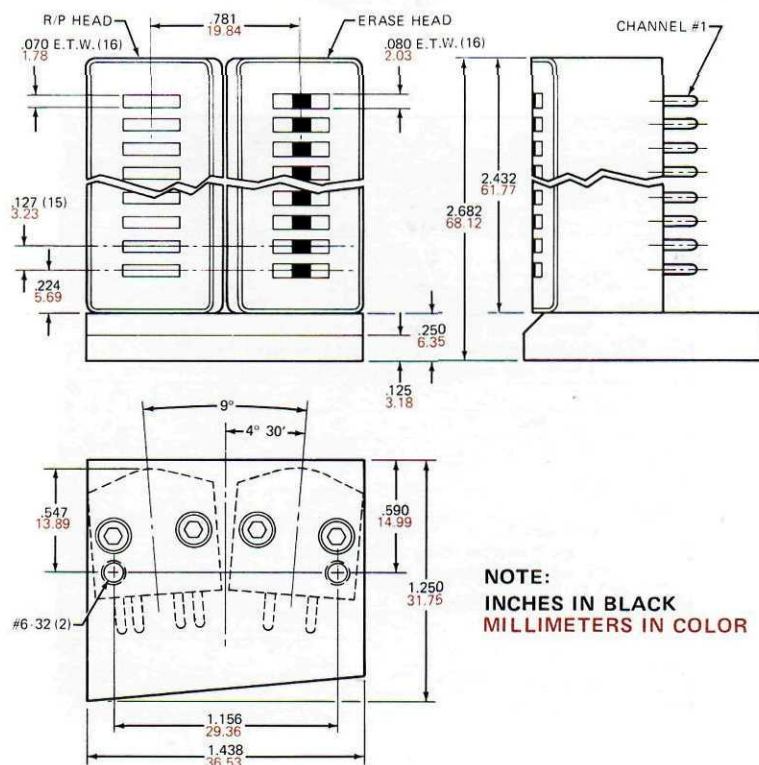
ELECTRICAL		MODEL H802004
Inductance @ 100 MV 1 kHz, millihenrys	RECORD COIL	3.5
D.C. Resistance, ohms	RECORD COIL	55
100 kHz Impedance, ohms	RECORD COIL	2600
Inductance @ 100 MV 1 kHz, millihenrys	PLAY COIL	50
D.C. Resistance, ohms	PLAY COIL	220
1 kHz Impedance, ohms	PLAY COIL	320
Transformer Crosstalk, dB	1 kHz	-50
Transformer Crosstalk, dB	10 kHz	-50
Gap Length, microinches		300
Track Width, inches		.038
Typical constant current record, unequalized playback characteristics on 3M 201 tape. Peak biased at 1 kHz at a recorded level 12 dB below tape saturation @ 1 kHz		
Peak Bias Voltage 100 kHz, volts	RMS	15 IPS
Bias Current for above, ma		7.5
Audio Record Current, ma		5.0
1 kHz Playback Output, MV		0.36
10 kHz Playback RE 1 kHz, dB	RMS	0.50
15 kHz Playback RE 10 kHz, dB		+9.0
		-2.0

ERASE DATA

ELECTRICAL		MODEL H802004
Inductance @ 25 MV 1 kHz, millihenrys		.170
D.C. Resistance, ohms		4.5
Z @ 60 kHz, ohms		50
Gap Length, inches		.003
Track Width, inches		.048
Typical characteristics for 70 dB erasure of 400 Hz saturated signal on 3M 201 tape		
Eraser Voltage 60 kHz, volts	RMS	7.5 IPS
Eraser Voltage 100 kHz, volts	RMS	5.5
Eraser Current for above, ma		9.0
Head Saturation Voltage 60 kHz, volts	RMS	75
Saturation Current, ma		6.5
		100

STUDIO SERIES HEAD ASSEMBLIES

H802002 16 CHANNEL R/P & ERASE ASSEMBLY, 2" TAPE



NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR

RECORD/PLAYBACK DATA

ELECTRICAL		MODEL H802003
Inductance @ 100 MV, 1 kHz, millihenrys	RECORD COIL	3.4
D.C. Resistance, ohms	RECORD COIL	35
100 kHz Impedance, ohms	RECORD COIL	2600
Inductance @ 100 MV, 1 kHz, millihenrys	PLAY COIL	50
D.C. Resistance, ohms	PLAY COIL	275
1 kHz Impedance, ohms	PLAY COIL	320
Transformer Crosstalk Play to Play, 1 kHz, dB		-50
Transformer Crosstalk Play to Play, 10 kHz, dB		-50
Gap Length, microinches		300
Track Width, inches		.070
Typical constant current record, unequalized playback characteristics on 3M 201 tape. Peak biased @ 1 kHz at a recorded level 12 dB below tape saturation @ 1 kHz		
Peak Bias Voltage, 100 kHz, volts	RMS	15 IPS
Bias Current for above, ma		8.0
Audio Record Current, ma		7.0
1 kHz Playback RE 1 kHz, MV	•RMS	0.44
10 kHz Playback RE 1 kHz, dB		1.0
15 kHz Playback RE 10 kHz, dB		+9.0
		-2.0

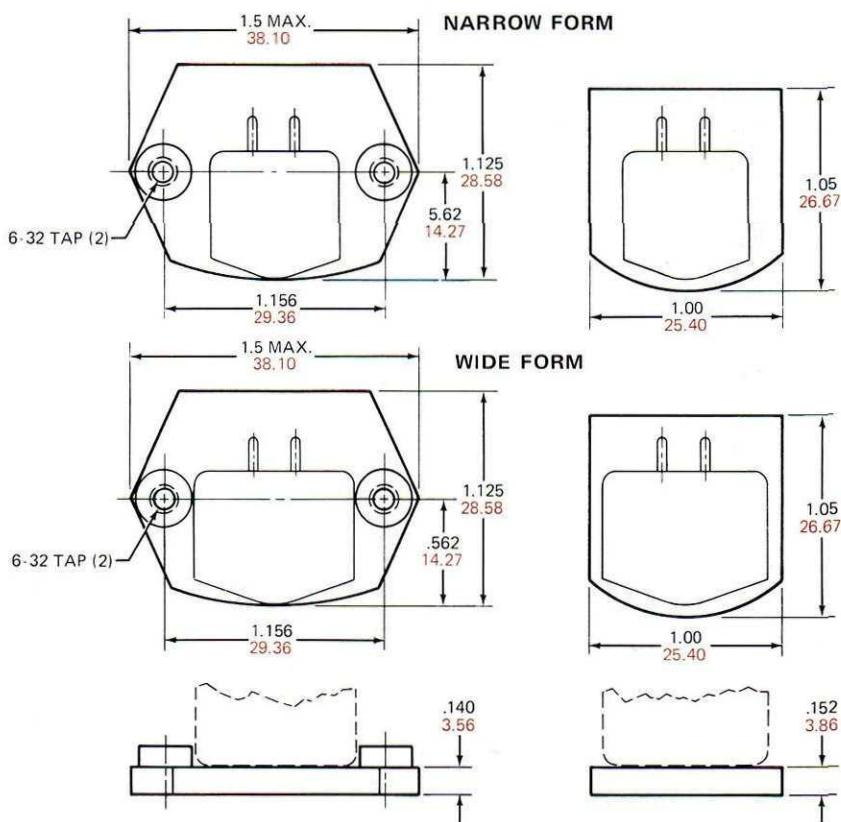
ERASE DATA

ELECTRICAL		MODELS H802002 & H802003	
Inductance, 1 kHz @ 10 MV, millihenrys	RMS	170	
D.C. Resistance, ohms		3.0	
Impedance @ 60 kHz, ohms		70	
Impedance @ 100 kHz, ohms		110	
Track Width, inches		.080	
Gap Length, inches		.003	
Track Spacing, Center to Center, inches		.130	
Typical characteristics for minimum of 70 dB erasure of a 400 Hz saturated signal on 3M 201 tape			
Erase Voltage, volts	RMS	60 kHz, 7.5 IPS	100 kHz, 15 IPS
Erase Current, ma		5.0	11.0
Saturation Voltage, volts		80	95
Saturation Current, ma		10.0	16
		160	160



STANDARD HEAD MOUNTS

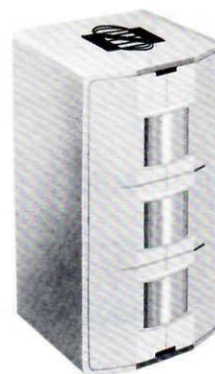
Studio Series Heads are supplied without mount, with drilled and tapped holes in base (illustrated on previous pages), or with Standard Mount shown at right. Special mounts are available. Contact us for custom requirements.



DESIGN DATA

NORTRONICS
AUDIO HEADS

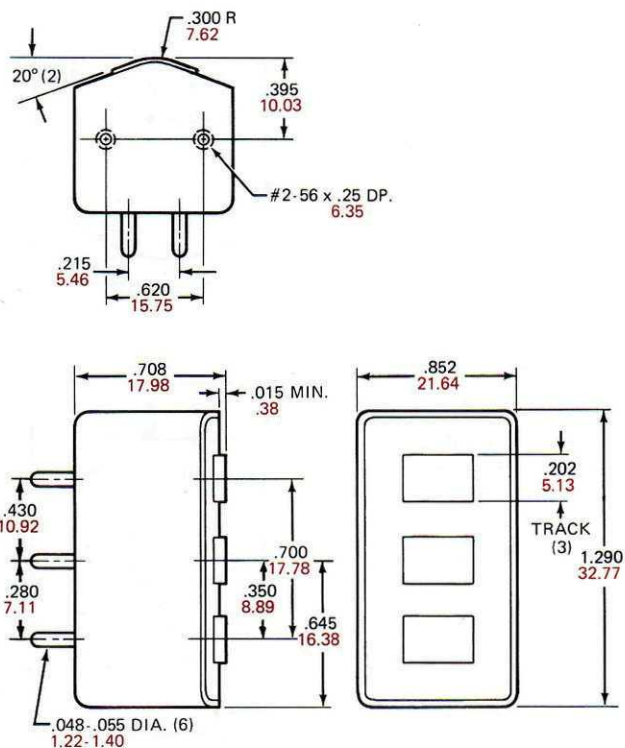
SMPTE COMPATIBLE HEADS 3 Channel, 35 mm Record Playback & Erase



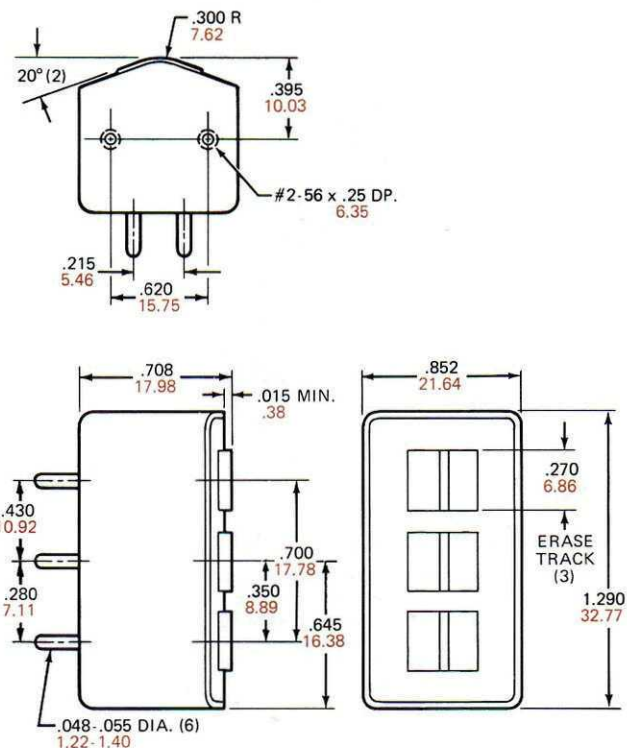
PHYSICAL CONFIGURATIONS

NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR

3 CHANNEL RECORD & PLAYBACK



3 CHANNEL ERASE



ELECTRICAL	MODEL NUMBER		
	MP3R	MP3P	MP3E
Head Function	Record	Playback	Erase
Inductance — 1 kHz - millihenrys	4.0	300	1.5
Impedance — 1 kHz - ohms	25	1900	—
Resistance, D.C., ohms	4.7	190	25
Gap Length, microinches	200	100	.003
Average 7.5 IPS constant current record/playback characteristics using 3M 150 tape peak biased @ 1 kHz and recorded 12 dB below tape saturation			
Peak Bias Current, 160 kHz, ma	12	—	50*
Bias Voltage, RMS, 160 kHz, volts	25	—	75*
Record Current, microamps	800	—	—
1 kHz Output, millivolts	—	3.7	—
10 kHz/1 kHz ratio, dB	—	+4	—
Average 4.0 IPS constant current record/playback characteristics using 3M 150 tape peak biased @ 1 kHz and recorded 12 dB below tape saturation			
Peak Bias Current, 160 kHz, ma	11	—	45*
Bias Voltage, RMS, 160 kHz, volts	22	—	70*
Record Current, microamps	700	—	—
1 kHz Output, millivolts	—	3.4	—
10 kHz/1 kHz ratio, dB	—	-4	—

*Typical erase characteristics for 70 dB erasure of a 400 Hz saturated signal on 3M 201 tape.

DESIGN DATA

NORTRONICS
AUDIO HEADS

H806036 & H805004 Full Width Erase Heads for 1" Tape Full Ferrite Core Structure



H806036

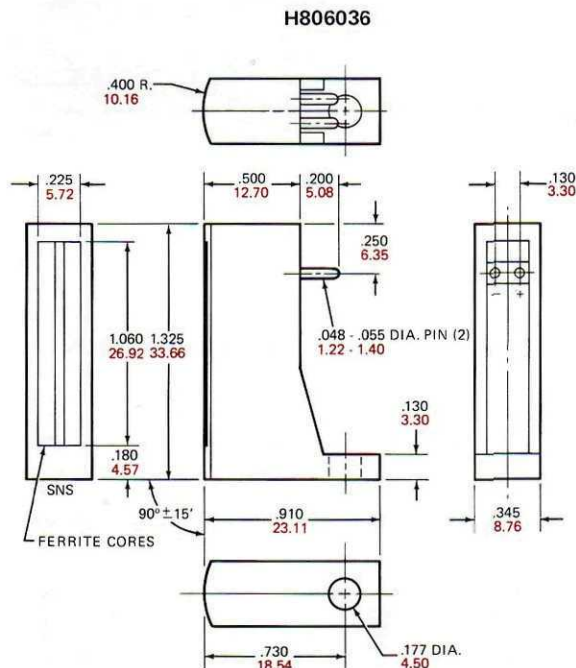


H805004

ELECTRICAL	
Inductance - 1 kHz, 50 millivolts	1.0 MHY
Resistance, D.C., ohms	8.0
Impedance - 60 kHz, ohms	400
Gap Length - Inches	.003
Track Width - Inches	1.06
Typical characteristics for 70 dB erasure of a 400 Hz saturated signal on 3M 951 tape	
Tape Speed - IPS	7.5
Erase Voltage @ 60 kHz, volts	60
Erase Current, 60 kHz, ma	150
Head Saturation, 60 kHz, volts	90
Head Saturation, 60 kHz, ma	220

PHYSICAL CONFIGURATIONS

NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR



BASIC HEAD CONFIGURATION – NO MOUNT

