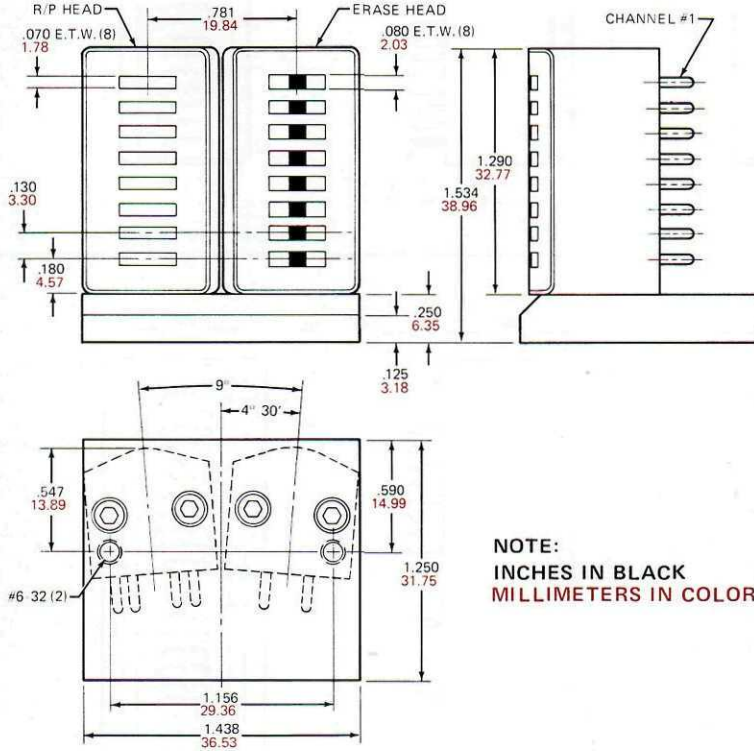


STUDIO SERIES HEAD ASSEMBLIES

H802003 8 CHANNEL R/P & ERASE ASSEMBLY



NOTE:
INCHES IN BLACK
MILLIMETERS IN COLOR

- ASSEMBLIES OF AN ERASE HEAD AND DUAL COIL RECORD/PLAYBACK HEAD PRECISION MOUNTED ON A BASE PLATE
- RECORD/PLAYBACK HEAD HAS LOW IMPEDANCE RECORD WINDING AND SEPARATE HIGH IMPEDANCE PLAYBACK WINDING.

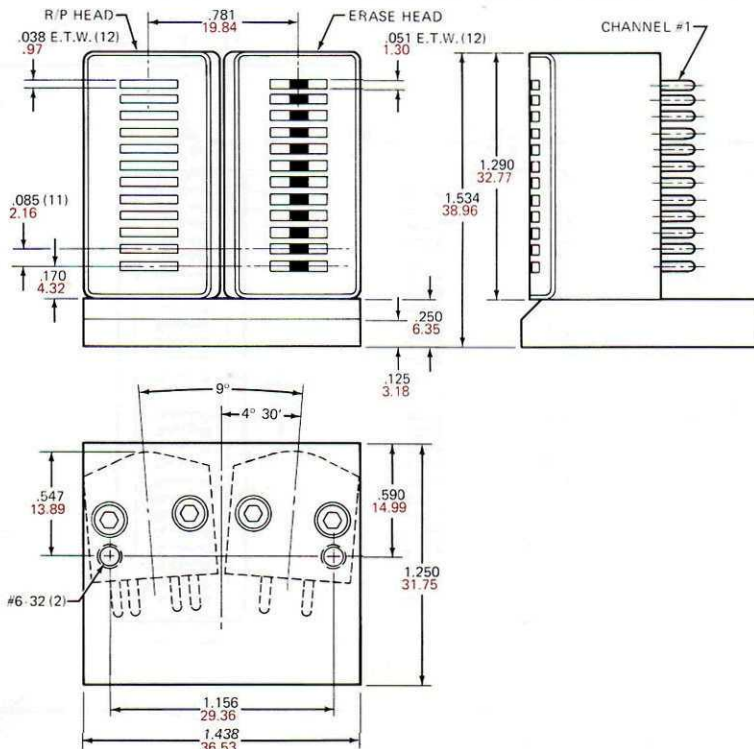
RECORD/PLAYBACK DATA

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