

# Magnetic Head Specifications

## APPLICATION NOTES

■ ERASE HEADS	1/4-INCH TAPE, CASSETTE, AND SPECIALS	RCD MODEL NO. (NO MOUNT) (heads have mounts)	Outline Drawing & Case Size	RCD REAR MOUNT NORTRONICS MODEL NO.	Rear Mount Drawing No.	OEM NORTRONICS NO. (NO MOUNT)	Application Notes	Inductance, 1 kHz (mH)	Resistance, DC (ohms)	Nominal Operating Parameters				
										Erase Current RMS (mA)	Erase Voltage RMS 100 kHz (V)	Impedance, 100 kHz (ohms)	Erase from Sat. 400 Hz (dB)	DC Erase Current (mA)

### Metal face, packaged in narrow SE and LE size metal cases (1/4-inch Tape)

	1400	75E	1450	58	SSEQ1-N6	54	80	240	4.5	200	45K	60	7
4-Track Stereo	1400L	8LE	-	-	LSEQ1-N2	54/22	80	240	4.5	200	45K	60	7
	1401	75E	1451	58	SSEQ4-N6	54	10	32	12	50	4200	60	18
	1401L	8LE	-	-	LSEQ4-N2	54/22	10	32	12	50	4200	60	18
	1402	75E	-	-	SSEQ2-N6	54	0.13	1.8	120	6	50	60	180
	1407	75E	-	-	SSEQ7-N6	54	30	65	7	90	13K	60	11
2 Track Stereo	1408	75E	-	-	SSEQ8-N8	54	2	6	40	33	820	60	60
	2200	27SE	2250	58	SSEH1-N6	54	50	130	7	150	22K	60	10
	2200L	28LE	-	-	LSEH1-N2	54/22	50	130	7	150	22K	60	10
	2201	27SE	2251	58	SSEH4-N6	54	10	27	22	65	3000	60	30
	2201L	28LE	-	-	LSEH4N2	54/22	10	27	22	65	3000	60	30
2 Track Mono	3600	26SE	-	-	SMEH1-N6	54	50	130	7	150	22K	60	10
	3601	26SE	-	-	SMEH4-N6	54	10	27	22	65	3000	60	30
	4400	34SE	-	-	SMEF1-N9	54	40	80	14	200	14K	60	20
Full Track Mono	4401	34SE	4451	58	SMEF4-N9	54	4	20	45	55	1200	60	70
	4401L	55LE	-	-	LMEF4-N2	54/22	4	20	45	55	1200	60	70
	4404	34SE	-	-	SMEF2-N9	54	0.85	1.3	320	12	40	60	450
	44081	34SE	-	-	SMEF8-B3	52/54	5	25	40	60	1500	60	60

### MINIATURE Erase Head

Miniature "M" .090-inch	4953†	-	4953	49M	M90E3U4-R	13	16	315	12	90	7K	50	20
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### CASSETTE Erase Heads with Ferrite Cores

CASSETTE 2-Track	5210	44	-	-	W2ER3-A	55	2	14	18	27	1.5K	60	25
	5211	44	-	-	W2ER4-A <td>55</td> <td>12</td> <td>115</td> <td>7</td> <td>70</td> <td>10K</td> <td>60</td> <td>10</td>	55	12	115	7	70	10K	60	10
	5212	44	-	-	W2ER5-A <td>55</td> <td>1.0</td> <td>10</td> <td>27</td> <td>18</td> <td>670</td> <td>60</td> <td>40</td>	55	1.0	10	27	18	670	60	40
	5213	44	-	-	W2ER9-A <td>55</td> <td>0.3</td> <td>2.2</td> <td>60</td> <td>10</td> <td>160</td> <td>60</td> <td>90</td>	55	0.3	2.2	60	10	160	60	90
	5214	44	-	-	W2ER47-A <td>55</td> <td>0.47</td> <td>0.9</td> <td>130</td> <td>4</td> <td>30</td> <td>60</td> <td>200</td>	55	0.47	0.9	130	4	30	60	200
1-inch Ferrite	7721	57RX	-	-	H806036/REX101	42	1.0	8	150	100	670	60	230

### Metal-face Erase Heads in B-size Cases

Full Track Mono	8101	33B	-	-	B1EF1J-NO	54	40	80	14	200	14K	60	20
	8102	33B	-	-	B1EF2J-NO	54	0.85	1.3	320	12	40	60	450
	8104	33B	-	-	B1EF4J-NO	54	4	20	45	55	1200	60	70
	8110	33B	-	-	B1EF93N2	54/21	2.5	17	50	50	1000	60	75
2-Track Stereo	8301	29B	-	-	B2EH1-NO	54	50	130	7	150	22K	60	10
	8302	29B	-	-	B2EH2-NO	54	0.2	1.7	100	8.5	85	60	150
	8307	29B	-	-	B2EH4-3N2	54/21	10	27	22	65	3000	60	30
4-Track Stereo "PRO" Ferrite/laminated Cores	8640	10B	-	-	PR-B2EQ4-NO	53	3	28	17	30	1700	65	25
	8641	10B	-	-	PR-R2EQ14	53	0.2	4	65	8	120	65	100
4-Track Stereo	8701	9B	-	-	B2EQ4-NO	54	10	32	12	50	4200	60	18
	8702	9B	-	-	B2EQ2-NO	54	0.13	1.8	120	6	50	60	180
	8704	9B	-	-	B2EQ1-NO	54	80	240	4.5	200	45K	60	7
4 Track, 4 Chan. "PRO" Ferrite/laminated Cores	8801	14B	-	-	PC-B4EQ2-NO	53	0.2	2.2	60	7	120	60	70
	8802	14B	-	-	PC B4EQ22-NO	53	0.8	9	30	15	500	60	40
	8803	14B	-	-	PC-B4EQ8-NO	53	8	45	13	45	3500	60	20

### PROFESSIONAL Erase Heads with Ferrite/laminated cores, in B-size Cases

Full Track Mono "PRO" Ferrite/laminated Cores	9125	32B	-	-	PR-B1EF4	53	1.0	6	70	42	600	70	120
	9126	32B <th>-</th> <th>-</th> <th>PR-B1EF9</th> <th>53</th> <th>2.0</th> <th>26</th> <th>50</th> <th>60</th> <th>1200</th> <th>70</th> <th>90</th>	-	-	PR-B1EF9	53	2.0	26	50	60	1200	70	90
	9127	32B <th>-</th> <th>-</th> <th>PR-B1EF15</th> <th>53</th> <th>0.5</th> <th>3</th> <th>100</th> <th>30</th> <th>300</th> <th>70</th> <th>180</th>	-	-	PR-B1EF15	53	0.5	3	100	30	300	70	180
	9128	32B <th>-</th> <th>-</th> <th>PR-R1EF17</th> <th>53</th> <th>0.12</th> <th>0.7</th> <th>200</th> <th>14</th> <th>70</th> <th>70</th> <th>350</th>	-	-	PR-R1EF17	53	0.12	0.7	200	14	70	70	350
2 Track Stereo "PRO" Ferrite/laminated Cores	9222	30B <th>-</th> <th>-</th> <th>PR-B2EH5</th> <th>53</th> <th>2.0</th> <th>23</th> <th>35</th> <th>50</th> <th>1400</th> <th>70</th> <th>50</th>	-	-	PR-B2EH5	53	2.0	23	35	50	1400	70	50
	9223	30B <th>-</th> <th>-</th> <th>PR-R2EH14</th> <th>53</th> <th>0.2</th> <th>3.7</th> <th>115</th> <th>16</th> <th>140</th> <th>70</th> <th>200</th>	-	-	PR-R2EH14	53	0.2	3.7	115	16	140	70	200
	9226	30B <th>-</th> <th>-</th> <th>PR-B2EH4</th> <th>53</th> <th>50</th> <th>35</th> <th>24</th> <th>80</th> <th>3300</th> <th>70</th> <th>35</th>	-	-	PR-B2EH4	53	50	35	24	80	3300	70	35
	9227	30B <th>-</th> <th>-</th> <th>PR-B2EH15</th> <th>53</th> <th>0.5</th> <th>6.5</th> <th>75</th> <th>25</th> <th>333</th> <th>70</th> <th>110</th>	-	-	PR-B2EH15	53	0.5	6.5	75	25	333	70	110
	9228	30B <th>-</th> <th>-</th> <th>PR-B2EH16</th> <th>53</th> <th>0.01</th> <th>0.2</th> <th>600</th> <th>3.3</th> <th>5.5</th> <th>70</th> <th>900</th>	-	-	PR-B2EH16	53	0.01	0.2	600	3.3	5.5	70	900

■ STUDIO ERASE HEADS	1/2-INCH, 1-INCH AND 2-INCH TAPE	RCD MODEL NO.	OEM NORTRONICS MODEL NO.	Application Notes	Inductance 1 kHz (mH)	Resistance D.C.R. (ohms)	Erase Frequency (kHz)	Erase Voltage RMS (V)	Erase Current (mA)	Impedance at Erase Frequency (ohms)
1/2" Three Channel		9370	STE-3S4-E11	44/53	0.17	2.2	60	8	110	70
		9470	STE-4B6-E01	44/53	0.17	3	60	8	110	70
1/2" Four Channel		9472	STE-4B6-F51	50/53	0.17	3	100	12	110	110
		9890	STE-8B6-E31	44/53	0.17	3	60	8	110	70
1" Eight Channel		9891	STE-8BN55-G122	47/53	1.3	17	120	60	67	900
		9892	STE-8BN6-N	46/53	0.17	3	60	8	110	70
1" Twelve Channel		9986	STE-12U19-E28	44/53	0.17	4.5	60	6	95	65
2" Twenty-four Channel		9985	STE-24UN58T-N135	51/53	0.6	7	150	50	100	500
		9987	STE-24UN56-G147	47/53	1.2	13	120	55	70	800
		9996	STE-16BN6-E25	44/53	0.17	3	60	8	110	70
2" Sixteen Channel		9997	STE-16BN55-G125	47/53	1.3	17	120	60	67	900
		9999	STE-16BN6-N	46/53	0.17	3	60	8	110	70

- High impedance play-only head.
- Medium impedance play or record/play.
- Medium impedance record head.
- Low impedance record head for high speed duplicators or professional recorders.
- Low impedance play or R/P head for high speed duplicator master playback or for transformer-input play amplifier.
- Special fine-gap play head for 3.75 ips and lower tape speeds.
- Special dual-impedance R/P head for RCA RT7 cartridge machines.
- Special long-stud rear mount for TAPECASTER. (Will also fit other machines.)
- Center-track (Y-offset) heads to replace obsolete GMH solid-core heads.
- Miniature L-head with 24-mil projecting track. Typical use: on 30-mil magnetic oxide stripe of Super-8 film.
- Special relieved 42-mil track L-head for playback on RCA TP66 16-mm projector. Has Alfenol cores and no-thread base stud mount.
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- Miniature M-size erase head, 90-mil relieved track, rear mount.
- Min. M-size RP head with 70-mil relieved track. Typically use on 16-mm film.
- Min. L-head with proj. track for use on 16-mm film or hard surfaces.
- Single-channel read-after-write head with #2 cylindrical face contour. Typical application on digital cassette recorder or audio record/monitor head.
- Special No-mount head with case hole and slot to fit TELEX duplicator mounts.
- ALPS stereo cassette R/P head.
- Two-channel dual-gap read-after-write head with #2 cylindrical face contour. For digital cassettes or audio record/monitor head.
- Special "BX" case size, .550W x .530H to fit original mount.
- Special base grind plus locating holes for RCA RT21B.
- "LE" Large-case erase heads with locating holes in base, to fit certain Viking tape transports.
- Special precision non-adjustable mount, upper tracks, for 8-track cartridge duplicator.
- As 23, but lower tracks.
- COMBO combination erase-RP head, both erase and RP units in B-case.
- Z-COMBO cassette erase-RP head, .030-inch gap separation.
- IVC special F-case Z-Combo Audio II erase-RP with flush 13-mil track.
- Z-Combo erase-RP head with .020-inch extended track. Typical application record and play on .030 magnetic stripe of Super-8 film.
- Special C-case rear mount head for certain model SPOTMASTER cartridge recorders.
- SHOWCHRON "Picture head" with 80-mil relieved track for 16-mm edge stripe. Remove wear-shoe from old head and epoxy it to new head.
- TAPE-ATHON mono play head, "L" lower track, "U" upper track.
- MOVIOLA relieved-track film editor sound head.
- Special changer read head.
- IVC 1-inch dual-track audio/control head with angled gaps.
- MAGNASYNC 200-mil flush 16-mm film head.
- SHOWCHRON sound head with 2-56 tapped holes in base.
- Special 4-40 base mount stud for certain Wollensak recorders.
- Has single 4-40 tapped mounting hole in base.
- Dummy head to support tape in NAB cartridge tape players.
- LOCKHEED special precision base plate with tapped holes.
- 3M CANTADA play head, epoxy to original mount plate.
- 1-inch full-width ferrite erase heads. Q is 25.
- RCA RT21B special terminal board, base grind, and locating holes.
- SCULLY base plate supplied on head.
- AMPEX 300/440 base mount block supplied with head.
- No-mount, with 2-56 tapped holes in base.
- MCI cables furnished, no mount, with 3-48 tapped holes.
- SCULLY 100-dual head nest with special dual-coil record/play head. Heads may be purchased separately or as assembly.
- SCULLY 100 special dual-coil record head; no-mount with 2-56 mounting holes.
- AMPEX 300/440 type mount base included with erase head, 300 series requires 1-rnH, 150-mA RF choke in series with each head coil. AG440 requires 0.5-mH, 150-mA chokes for impedance matching. Tune for specified erase head voltage.
- AMPEX MM1200 erase head, with cables, less base mount block.
- #6-32 base stud included on head.
- High efficiency erase heads with ferrite/HyMu cores for use at operating frequencies up to 250 kHz. Operating voltage should be set proportional to frequency; i.e., at 150 kHz it is 150% of 100 kHz voltage. Do not exceed specified voltage by more than 20% to avoid core saturation.
- All metal-face erase heads for general purpose low cost applications. 100 kHz maximum recommended operating frequency. At lower frequencies reduce voltage proportionately.
- Cassette all-ferrite erase heads, with mount and tape guide. Maximum operating frequency 500 kHz - voltage proportional to frequency.