

# Magnetic Head Specifications

RECORD/PLAY PLAYBACK RECORD	CASSETTE HEADS .150-INCH (3.81-mm) TAPE		RCD MODEL NO., "A" MOUNT	Outline Drawing & Case Style	OEM NORTRONICS Head No.	Head Function	Application Notes	Inductance, 1kHz (mH)	Impedance, 1 kHz (ohms)	Resistance, DC (ohms)	Gap Spacer	Crosstalk Rejection (db)	1 7/8 IPS unequalized R/P Resp. with TP-18 tape, pk biased at 1 kHz, 12dB below tape saturation.						NRZ digital write/read data, 7.5 IPS 200 BPI		
	15 IPS dupl. data with 500 kHz bias. 8 & 80 kHz.												Peak Bias 1 100 kHz rms (mA)	Peak Bias V. 100 kHz rms (V)	Audio Record Current rms (µA)	1 kHz Play Output rms (mV)	10 kHz / 1 kHz Output Ratio (dB)	Write Current (P-P mA)	Read Output (200 BPI)	Max. Read Pack. Dens. (BPI)	
NORTRONICS cassette heads have fine laminated cores, deposited-quartz gaps and hyperbolic face contour "W" case size and "A" removable mounting bracket are standard for convenience in interchangeability.	CASSETTE 2 track Mono Heads .057-inch (1.45-mm) single track. Located .046-in. (1.17-mm) below center of head face.	5130	37W	W1R6F-A	RP	2	200	1500	175	50	-	-	1.5	30	40	0.5	-12	1	9	1600	
		5131	37W	W1R8N-A	R	4	10	75	35	200	-	-	0.8	7	140	-	-	7	3	6	800
		5132	37W	W1R4F-A	RP	2	80	600	110	50	-	-	0.6	30	50	0.3	-12	3	6	1600	
		5133	37W	W1R5F-A	RP	2	50	300	80	50	-	-	0.8	15	70	0.2	-12	4	4	1600	
		5134	37W	W1R8F-A	RP	4	20	135	45	50	-	-	1.4	10	110	0.14	-12	5	3	1600	
		5140A	37W	(ALPS) HN214844	RP	2	180	1200	185	80	-	-	0.5	30	30	0.7	-14	1	9	800	
CASSETTE PREMIUM Full Track - Single .130" (3.3-mm) Track	5150	45W	DC11F111N-63A	R	4	10	70	15	200	-	-	2.5	8	160	-	-	10	10	800		
CASSETTE PREMIUM Full Track - Single .170" (4.3-mm) Track	5151	45W	DC11K121K-A	R	4	3	20	10	100	-	-	3.2	5	500	-	-	22	5	1600		
CASSETTE Mono RAW head. (Dual Gap) .057" (1.45-mm) Single Track	5160	43W	DC12P060KZ A	R	16	10	70	25	100	-	-	1.5	6	140	-	-	33	-	1600		
CASSETTE STANDARD 2-track 2-channel Heads. .057-inch (1.45 mm) Track Width. .092-inch (2.34-mm) Center-to-Center Track Spacing.	5200	39W	W2P6F-A	RP	2	200	1400	215	50	50	50	0.3	30	30	0.5	-10	1	9	1600		
	5201	39W	W2P8N-A	P	4	10	80	40	200	50	1.7	25	110	-	-	7	3.6	800			
	5202	39W	W2P8K-A	RP	5	20	140	45	100	50	1.0	9	100	0.2	-17	7	3.6	1600			
	5203	39W	W2P6N-A	R	3	100	700	215	200	50	0.3	20	35	-	-	2	13	800			
	5205	39W	W2P8F A	P	5	20	135	45	50	50	-	-	0.7	-12	5	3	1600				
	5206	39W	W2P4F A	RP	2	80	600	115	50	50	0.5	20	50	0.4	-12	3	6	1600			
	5207	39W	W2P5F-A	RP	2	50	330	80	50	50	0.9	16	70	0.3	-12	4	4	1600			
	5220	39W	P-W2P11N-A	R	4	2	15	9	200	50	2.3	15	300	-	-	14	4	800			
	5221	39W	PW2P11F-A	RP	5	2	20	13	50	50	3.5	17	350	0.4	-12	16	3	1600			
	5222	39W	P-W2P8F-A	P	5	20	135	45	50	50	-	-	-	1.2	-12	5	3	1600			
CASSETTE PREMIUM 2 track 2-channel Heads. 2-mil core laminations for maximum efficiency at high bias and audio frequencies. .057-inch (1.45-mm) Track Width .092-inch (2.34-mm) Center-to-Center Track Spacing.	5223	39W	P-W2P8F-61NO	R	17	20	135	45	50	50	-	-	-	1.2	-12	5	3	1600			
	5225	39W	P-W2P2N A	R	4	.15	1	1	200	50	12	4.3	1200	-	-	60	1	800			
	5230A	38W	(ALPS) HN424401 W2J4F-A	RP	18	140	850	150	50	30	45	18	30	.25	-10	3	2.5	1600			
CASSETTE Read After Write Heads Two-channel Dual-gap heads for digital write/read or audio record and monitor. .057-inch (1.45-mm) Write Track (2) .036-inch (0.9-mm) Read Track (2) .092-inch (2.34-mm) C-C Track Spacing	5260	42W	DC22P060K2A	R	19	10	70	25	100	-	-	1.5	6	140	-	-	33	-	1600		
5261	42W	DC22P084KF2-A	R	19	14	100	28	100	-	-	5.0	1.2	110	0.3	-12	30	-	1600			
CASSETTE 4 CHANNEL HEADS Capable of recording and playing all four channels of the standard cassette stereo format. Heads have all metal faces, precise track alignment, and unusually low crosstalk. .021 inch (0.53-mm) Track Width (4) 5-mil laminations (Std. P types) 2-mil laminations (Prem. P2 types) for lower losses at very high bias frequencies.	5410	51W	P-W4J4F-A	RP	2	80	550	170	50	55	0.5	14	40	0.2	-12	3	4	1600			
	5411	51W	P-W4J8N-A	R	4	10	85	60	200	55	1.5	24	120	-	-	9	2	800			
	5412	51W	P-W4J11N-A	R	4	2	30	27	200	55	7	12	250	-	-	16	1	800			
	5413	51W	P-W4J8F-A	P	5	20	150	65	50	55	-	-	.6	-12	6	2	1600				
	5416	51W	P-W4J4F-61N	RP	17	80	550	170	50	55	0.5	14	40	0.2	-12	3	4	1600			
	5417	51W	P2-W4J11N-A	R	4	2	30	27	200	55	3.3	11	270	-	-	16	1	800			

RECORD/PLAY PLAYBACK RECORD	MAGNETIC HEADS 1/4 INCH TAPE		RCD MODEL NO., (Heads have mounts)	Outline Drawing & Case Style	Rear Mount NORTRONICS Head Model No.	Rear Mount Drawing No.	OEM NORTRONICS Head No. (Rear Mount Head No.)	Head Function	Application Notes	Inductance, 1kHz (mH)	Impedance, 1 kHz (ohms)	Resistance, DC (ohms)	Gap Spacer	Crosstalk Rejection (db)	7.5 IPS unequalized R/P response using 3M176 tape, pk biased at 1 kHz, 12 dB below tape saturation.						NRZ digital write/read data, 7.5 IPS, 200 BPI	
	Peak Bias 1 100 kHz rms (mA)	Peak Bias V. 100 kHz rms (V)													Audio Record Current rms (µA)	1 kHz Play Output rms (mV)	10 kHz / 1 kHz Output Ratio (dB)	Write Current (P-P mA)	Read Output (200 BPI)	Max. Read Pack. Dens. (BPI)		
4-Track 4-Channel Heads for 1/4-inch tape. PREMIUM P-BQQ models have superior crosstalk rejection, as do the B4Q models. BQQ: .037-inch (.95-mm) Track Width .071-inch (1.8-mm) C-C Track Spacing B4Q: .042-inch (1.07-mm) Track Width .067-inch (1.7-mm) C-C Track Spacing	5601	12B	5651	58	PBQQ4R	R	3	50	380	220	500	55	0.6	17	65	-	-	2.7	14	400		
	5602	12B	5652	58	P-BQQ4K	RP	2	100	650	245	100	55	0.6	30	60	0.7	+4	2.7	14	1600		
	5603	12B	5653	58	P-BQQ7K	RP	2	400	2600	760	100	55	-	-	-	1.5	+4	1.5	28	1600		
	5604	12B	5654	58	PBQQ23R	R	4	12	100	55	500	50	1.4	8.5	110	-	-	5	7	400		
	5605	12B	5655	58	P-BQQ5K	RP	5	4	24	35	100	55	4	5	150	.15	+2	11	3	1600		
	5606	12B	5656	58	BQQ9K	RP	5	10	75	40	100	50	2.3	8.5	170	0.3	+2	7	4	1600		
	5607	12B	-	-	PBQQ10R	R	4	4	42	32	500	50	2.6	5	230	-	-	9	4	400		
	5609†	12B	-	-	BQQ4LB10	RP	2	85	550	230	160	35	0.6	23	60	0.8	+4	2.7	14	1600		
	5610	12B	-	-	BQQ4K-N	RP	2	100	670	230	100	40	0.5	32	60	0.7	+4	2.7	14	1600		
	5611†	12B	-	-	BQQ4R B	R	3	50	320	230	500	40	0.7	22	60	-	-	2.7	14	400		
	5612†	12B	-	-	BQQ4LB	RP	2	85	550	230	160	35	0.6	23	60	0.8	+4	2.7	14	800		
	5613	12B	-	-	BQQ4R-N	R	3	50	320	230	500	40	0.7	22	60	-	-	2.7	14	400		
	5614	12B	-	-	BQQ4L-N	RP	2	85	550	230	160	35	0.6	23	60	0.8	+4	2.7	14	800		
	5630	13B	-	-	B4Q4K-N	RP	2	100	700	195	100	50	0.7	35	65	0.7	+4	2.7	14	1600		
	PREMIUM 3 Channel Heads for 1/4 inch tape. Hyperbolic metal-face record and play heads with three channels. Popularly used on the NAB-type stereo cartridge tape machines. .043-inch (1.1-mm) Track Width (3) .100-inch (2.54-mm) C-C Track Spacing	5701	11B	5751	58	PB3Q7K	RP	2	350	2200	780	100	50	-	-	-	1.5	+4	1.6	36	1600	
		5702	11B	5752	58	PB3Q4K	RP	2	100	650	260	100	50	0.7	30	60	0.9	+4	2.7	18	1600	
		5703	11B	5753	58	P-B3Q4R	R	3	50	410	260	500	50	0.7	17	60	-	-	2.7	18	400	
		5704	11B	5754	58	PB3Q7K-R6-4U†	RP	2	350	2200	780	100	50	-	-	-	1.5	+4	1.6	36	1600	
		5707	11B	5757	58	PB3Q6K	RP	2	200	1400	490	100	50	0.5	40	45	1.2	+4	2.3	26	1600	
	5710	11B	-	-	PB3Q8R	R	4	10	80	47	500	50	1.5	7	130	-	-	8	9	400		