

# A.N.T. Audio “Kora 3T” phono preamplifier



First phono stage from ANT Audio is something very special. Only three field-effect transistors (FETs) are used per channel (hence “3T” in the name), single-ended class A, passive RIAA equalisation, local negative feedback (what is called “Zero Negative Feedback” by some manufacturers), low output impedance, excellent stability and frequency response. All this helps to create sound quality unexpected from a solid state circuit, with either MM or MC (using a suitable transformer for low output types) cartridges. Because the circuit is so simple its performance depends mostly on the quality of the components and the precise tuning of the DC biasing. For that reason there are 2 versions of the Kora 3T phono stage made available, sharing exactly the same circuit but different in sound quality and price. The table below gives a brief overview of these versions. All units are hand-built, thoroughly tested in our workshop near London and carry a 1year warranty. The “LE” version is supplied with measurement results for each unit.

	“Special Edition”	“Limited Edition”
<b>Load capacitor</b>	Polystyrene 1%	Polystyrene 1%
<b>RIAA network</b>	Polystyrene 1% capacitors, 1% metal film resistors	Polystyrene 0.5% capacitors, 0.5% selected resistors
<b>FETs</b>	Matched to <5%	Matched to <3% and selected for lowest noise
<b>DC biasing</b>	User adjustable	User adjustable
<b>RIAA (50Hz-20kHz)</b>	± 0.3dB	± 0.2dB
<b>SNR (A-wtd ref. 1V)</b>	>77 dB	>83 dB
<b>Power Supply</b>	High Performance 24V regulated	Ultra Low Noise 24V regulated
<b>LED colour</b>	Amber	Red
<b>UK RRP*(incl. P/S)</b>	£325	£775

(\* - Inclusive of VAT when applicable)

## Common specification for all versions

<b>Input Impedance</b>	47K    120pF
<b>Gain @ 1 kHz</b>	39 dB
<b>Frequency Response @ -1 dB</b>	Better than 30 Hz – 30 kHz
<b>THD @ 1 kHz , 500 mV output</b>	<0.1% (10K load), <0.3% (600 Ohm load)
<b>Max. output @ 3% THD (sine 20 Hz- 20 kHz)</b>	More than 6V RMS into 10K load, More than 2.5 V RMS into 600 Ohm load
<b>Output impedance @ 1 kHz</b>	Less than 50 Ohm
<b>Supply current</b>	Less than 50 mA
<b>Supply voltage</b>	From 22 to 30 V DC (nominal 24 V DC)
<b>Case</b>	Anodised Aluminium Alloy
<b>Size (HxWxL)</b>	48x91x133 mm
<b>Environmental</b>	RoHS compliant parts, components and solder.
<b>Packed Weight</b>	1 kg