

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 1 year warranty. The “LE” version is supplied with measurement results for each unit.

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

(* - Inclusive of VAT when applicable)

Common specification for all versions

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