DATA SHEET / MANUAL — LT 22

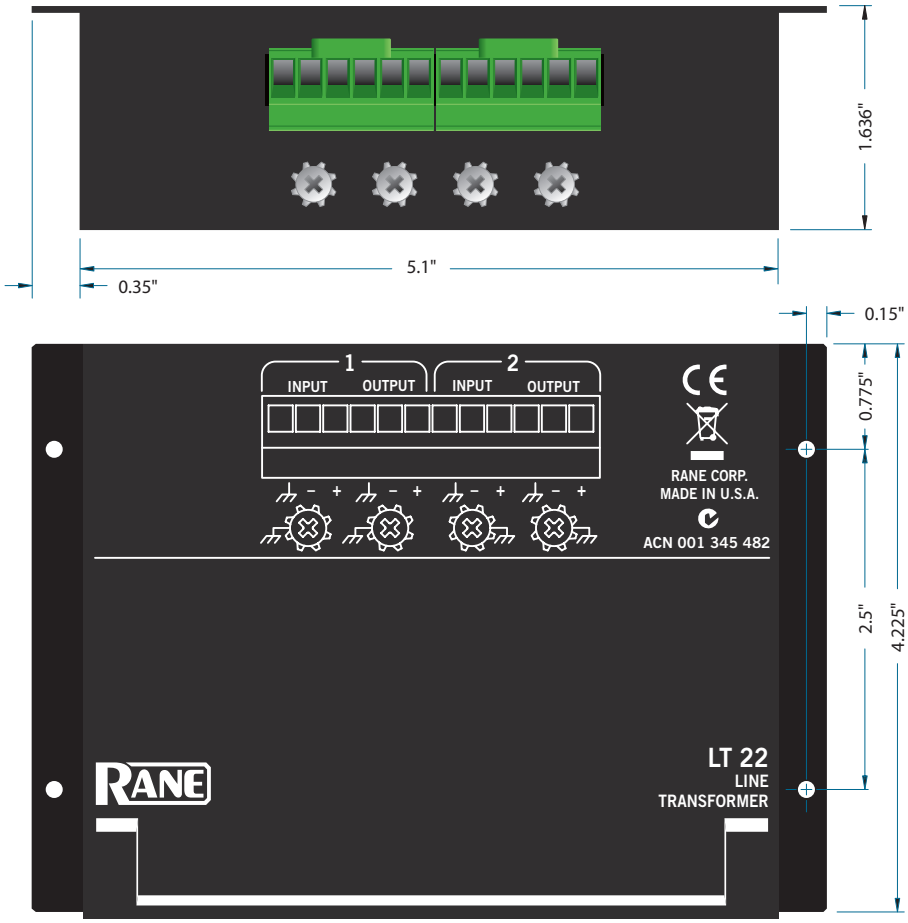
LINE TRANSFORMER

General Description

The LT 22 is a line-level two channel isolation box. Each channel contains a low distortion, high output, wide bandwidth, nickel-core output transformer.

The LT 22 is an easy and convenient way to add output transformers to any line-level equipment. The Inputs and Outputs may be configured as balanced or unbalanced as required.

The LT 22 is the quick and affordable answer to all jobs requiring output balancing or isolation transformers. The Euroblock connections provide maximum installation flexibility and cost savings.



Features

- +24 dBu Levels
- 2 Channels
- Nickel Core "80" Ni Transformers
- Wide Bandwidth
- Low Distortion
- Euroblock Connectors

Parameter	Specification	Limit	Units	Conditions/Comments
Transformer Construction	Nickel Core Bobbin Wound			Grade "80" Ni
Turns Ratio	1:1			Primary to secondary
40 Hz Max Output Level	+24	0.5dB	dBu	1% THD point
20 Hz Max Output Level	+18.5	0.5dB	dBu	1% THD point
Insertion Loss	0.5	0.1	dB	
DC Resistance	200	10%	Ω	Primary and secondary
Frequency Response	20-20 kHz	±1	dB	+4 dBu
Bandwidth	60 kHz	-3	dB	Half power frequency
THD + Noise	less than .005	.001	%	+20 dBu; 100 Hz-20 kHz
	less than 0.15	.05	%	+20 dBu; 30-100 Hz
Unit: Agency Listing	UL/CSA			Exempt Class 2 equipment
	CE-EMC			Exempt passive device
	CE-Safety			Exempt extra low voltage device
Unit: Construction	All Steel			
.....Size	1.65"H x 5.1"W x 4.25"D			(4.2 cm x 13 cm x 10.8 cm)
.....Weight	1 lb			(.45 kg)
Shipping: Size	3.6" x 11.75" x 7.2"			(9.5 cm x 30 cm x 18 cm)
.....Weight	2 lb			(.9 kg)
All specifications measured with 25 Ω source and 10 kΩ load				*0 dBu=0.775 volts*

WEAR PARTS: This product contains no wear parts.

Application Information

The LT 22 fills the need of adding output isolation balancing transformers to any line-level equipment. It is a convenient alternative to the expense and clutter of adding loose or in-line transformers. The steel enclosure with mounting flanges provide an easy installation anywhere.

Wiring

No special instructions are necessary when wiring the LT 22. Use high-quality wire and choose the grounding method appropriate for the application. Inputs or outputs may be balanced or unbalanced in any combination. Connect unbalanced signal to the (+) terminal and shields to the (–) terminal.

Signal Direction

This is a 1:1 isolation transformer with no level changes. Signal can be isolated either direction through this unit.

Chassis Grounding

#6-32 screw terminals are provided for chassis grounding purposes. Good practice dictates earth-grounding the LT 22. If grounding integrity is in doubt, run a wire from one of these screws to a known earth ground.

Schematic