

MT-48000AUDIO SERIES



Wind Up the Best

Digital Audio Transformers for AES/EBU, S/PDIF

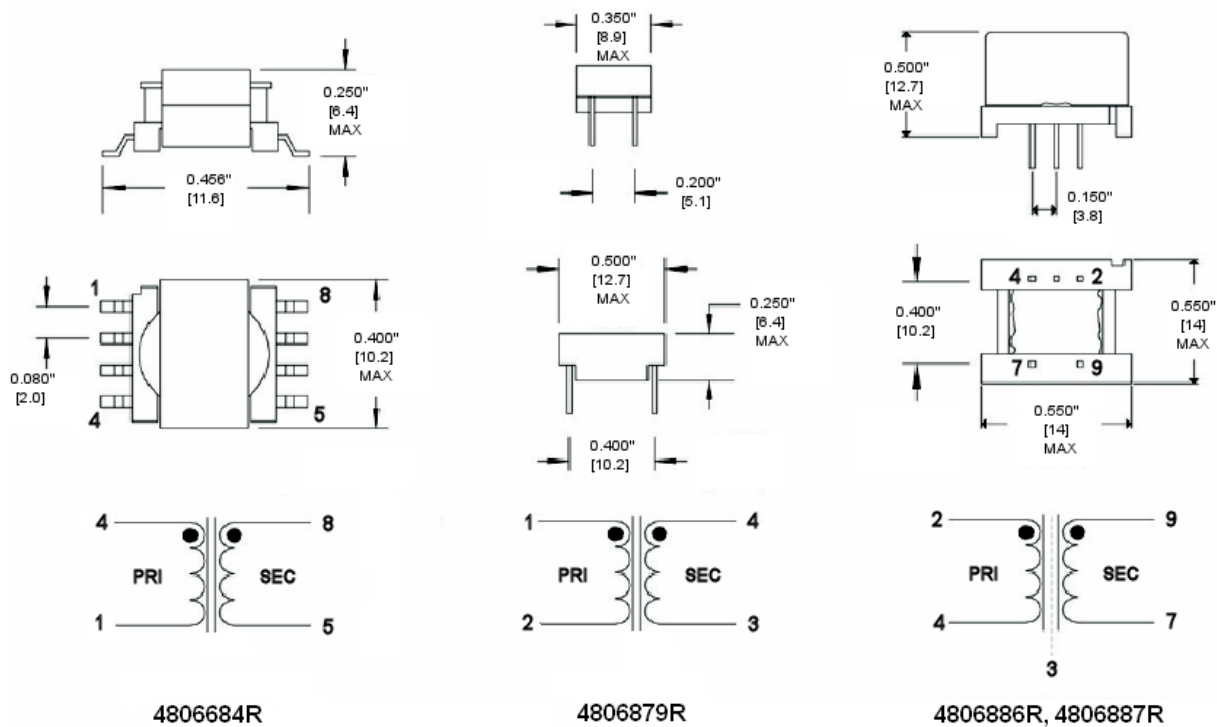


Phone: 605.884.0195
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 www.minntronix.com



- Low jitter designs
- Low leakage inductance for fast rise time
- Good common-mode noise rejection (CMRR)
- Supports multiple line impedances
- Supports multiple data rates
- Compatible with ICs made by Crystal/Cirrus, Burr-Brown, Toshiba, Motorola, Yamaha, AKM and others

Mechanical Dimensions:



UNITS: inch (mm)

Minntronix PN	Application	Turns Ratio PRI : SEC	Min PRI Inductance	Leakage Inductance	Hi-Pot
4806684R	AES/EBU DVD	1:1	300uH	0.7uH max	1500 VAC
4806879R	AES/EBU S/PDIF	1:1	2mH	0.5uH max	2000 VAC
4806886R	AES/EBU	1:1	4mH	3uH typ.	1000 VDC
4806887R	AES-3 S/PDIF	1:2	900uH	0.6uH typ.	1000 VDC

Specifications subject to change. Custom versions of any Minntronix Products are available upon request.

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MLM SERIES

Line Matching Audio Transformers

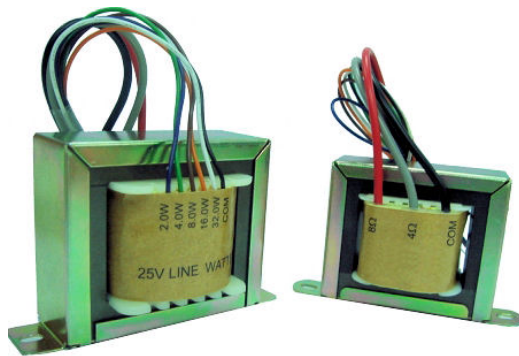
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MLM
SERIES



- Couples 4 or 8 ohms speakers to 25 70.7, or 100 volt line outputs of amplifiers.
- Up to 5 power tap levels available (except 100 Volt which has 4).
- Primary taps marked in watts (no calculation necessary), to match speaker power.
- Frequency response reference @ 1KHz. at full rated power.
- Insertion loss reference @ 1KHz. at full rated power.
- Distortion reference @ 100Hz. at full rated power.
- Efficiency reference @ 1KHz. at full rated power each tap across 4 or 8 ohms resistive load.
- Maximum Ambient Temperature : 50° C.
- Connections : 150 ±10 m/m multi stranded PVC wire. Stripped and Tinned.
- Horizontal, channel bracket, 2-hole mounting (except 100 Voltage 50W which has 4-hole).
- Total power requirements of speakers should not exceed the rated power of each transformer or rated power of the amplifier.

MLM SERIES

Line Matching Audio Transformers

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- 25 Volt Line Matching Audio Transformer

Part Number	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches				
		Primary	Secondary					Case			Mounting	
		ohms						L	W	H	MN	
MLM - 0250021	2 / 1 / 0.5 / 0.25 / 0.125	312.5 / 625 / 1.25K / 2.5K / 5K		4 / 8	1.5 dB	50Hz~15KHz±2.0 dB	1.5%	75%	1.45	1.15	1.25	1.80
MLM - 0250041	4 / 2 / 1 / 0.5 / 0.25	156 / 312.5 / 625 / 1.25K / 2.5K		4 / 8	1.5 dB	50Hz~15KHz±1.5 dB	1.25%	75%	1.70	1.40	1.45	2.10
MLM - 0250081	8 / 4 / 2 / 1 / 0.5	78 / 156 / 312.5 / 625 / 1.25K		4 / 8	1.25 dB	50Hz~15KHz±1.5 dB	1.25%	75%	2.00	1.50	1.70	2.40
MLM - 0250161	16 / 8 / 4 / 2 / 1	39 / 78 / 156 / 312.5 / 625		4 / 8	1.25 dB	50Hz~12KHz±2.0 dB	1.25%	78%	2.35	1.55	2.00	2.80
MLM - 0250321	32 / 16 / 8 / 4 / 2	19.5 / 39 / 78 / 156 / 312.5		4 / 8	1.0 dB	45Hz~12KHz±3.0 dB	1.0%	80%	2.70	1.95	2.30	3.20

- 70.7 Volt Line Matching Audio Transformer

Part Number	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches				
		Primary	Secondary					Case			Mounting	
		ohms						L	W	H	MN	
MLM - 0700021	2 / 1 / 0.5 / 0.25 / 0.125	2.5K / 5K / 10K / 20K / 40K		4 / 8	1.5 dB	50Hz~15KHz±1.0 dB	1.5%	70%	1.45	1.15	1.25	1.80
MLM - 0700041	4 / 2 / 1 / 0.5 / 0.25	1.25K / 2.5K / 5K / 10K / 20K		4 / 8	1.5 dB	50Hz~15KHz±1.0 dB	1.25%	72.5%	1.70	1.40	1.45	2.10
MLM - 0700081	8 / 4 / 2 / 1 / 0.5	625 / 1.25K / 2.5K / 5K / 10K		4 / 8	1.25 dB	50Hz~15KHz±1.0 dB	1.25%	80%	2.00	1.50	1.70	2.40
MLM - 0700161	16 / 8 / 4 / 2 / 1	312.5 / 625 / 1.25K / 2.5K / 5K		4 / 8	1.25 dB	50Hz~15KHz±1.0 dB	1.25%	78%	2.35	1.55	2.00	2.80
MLM - 0700321	32 / 16 / 8 / 4 / 2	156 / 312.5 / 625 / 1.25K / 2.5K		4 / 8	1.0 dB	45Hz~15KHz±1.5 dB	0.8%	80%	2.70	1.95	2.30	3.20
MLM - 0700641	64 / 32 / 16 / 8 / 4	78 / 156 / 312.5 / 625 / 1.25K		4 / 8	1.0 dB	40Hz~15KHz±3.0 dB	0.6%	80%	3.10	2.50	2.65	3.55

- 25/70.7 Volt Line Matching Audio Transformer

Part Number	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches				
		Primary	Secondary					Case			Mounting	
		ohms						L	W	H	MN	
MLM - 0257001	2 / 1 / 0.5 / 0.25	312.5 / 625 / 1.25K / 2.5K / 5K / 10K / 20K		8	0.95 dB	50Hz~15KHz±4.0 dB	11%	81%	1.15	1.05	1.10	

- 100 Volt Line Matching Audio Transformer

Part Number	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches				
		Primary	Secondary					Case			Mounting	
		ohms						L	W	H	MN	
MLM - 1000021	2 / 1 / 0.5 / 0.25	5K / 10K / 20K / 40K		4 / 8	1.0 dB	50Hz~15KHz±2.0 dB	2.5%	80%	1.70	1.40	1.45	2.10
MLM - 1000051	5 / 2 / 1 / 0.5	2K / 5K / 10K / 20K		4 / 8	0.8 dB	50Hz~15KHz±1.5 dB	1.5%	80%	2.00	1.50	1.70	2.40
MLM - 1000101	10 / 7.5 / 5 / 2.5	1K / 1.33K / 2K / 4K		4 / 8	0.6 dB	50Hz~15KHz ±1.0 dB	1.25%	85%	2.35	1.55	2.00	2.80
MLM - 1000161	16 / 8 / 4 / 2	625 / 1.25K / 2.5K / 5K		8	1.0 dB	50Hz~15KHz ±3.0 dB	7%	75%	1.70	1.45	2.05	2.05
MLM - 1000201	20 / 15 / 10 / 5	500 / 666 / 1K / 2K		4 / 8	0.5 dB	45Hz~15KHz±1.0 dB	1.25%	90%	2.70	1.95	2.30	3.20
MLM - 1000301	30 / 20 / 15 / 10	333 / 500 / 666 / 1K		4 / 8	0.5 dB	40Hz~15KHz±1.0 dB	1.0%	90%	3.10	2.50	2.65	3.55
MLM - 1000501	50 / 40 / 30 / 20	200 / 250 / 333 / 500		4 / 8	0.5 dB	40Hz~15KHz±1.0 dB	1.25%	90%	3.55	3.20	3.05	4.10