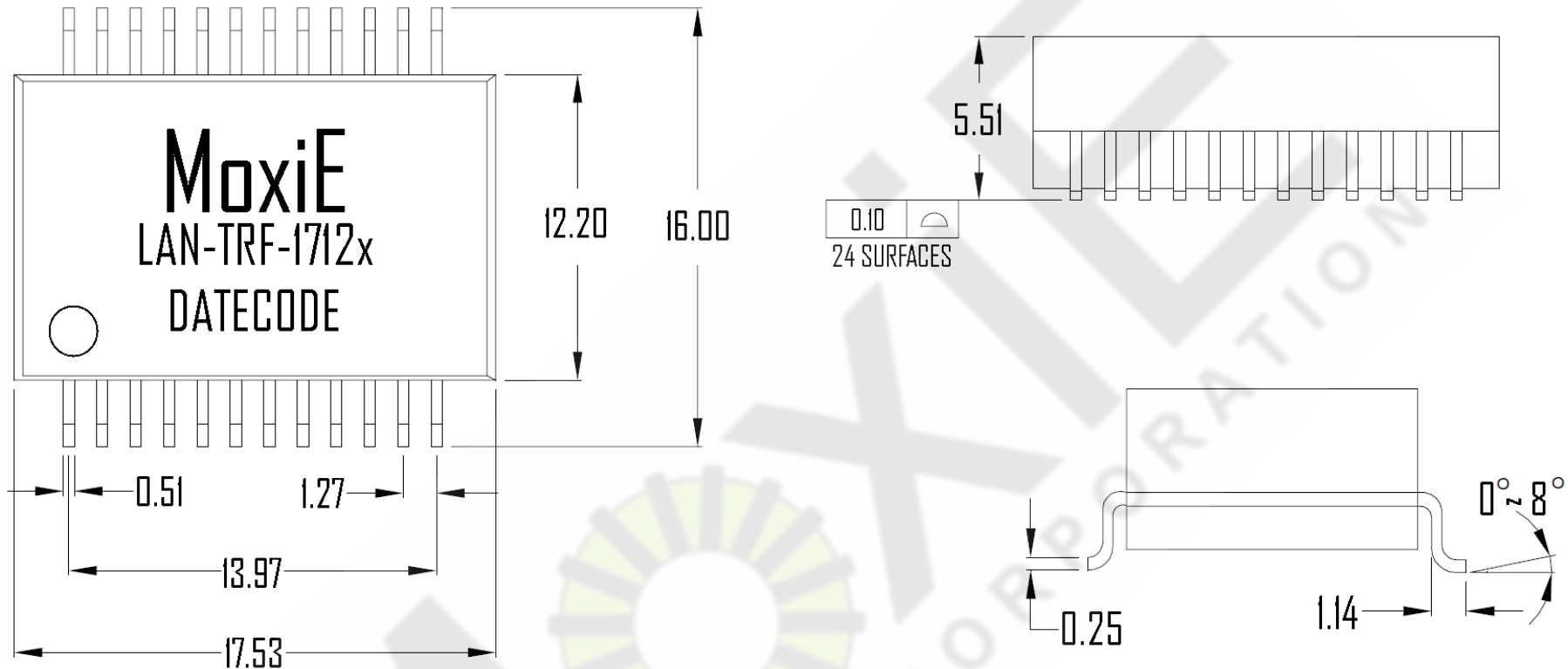


# MECHANICAL (mm)



## MOXIE NOTES:

- Meets 802.3 specifications.
- Packaging: Tray.
- Operating temperature range: -10°C to +70°C. (Industrial temperature of -40°C to +85°C available)
- Storage temperature range: -40°C to +125°C.
- RoHS-6 peak wave solder temperature rating 245°C.
- RoHS Compliant.
- MoxiE Inductor Corporation custom designs are subject to United States copyright and or patent protection(s).
- MoxiE Inductor Corporation specifications are subject to change without notice.
- Tolerances unless otherwise specified: 0~10=±0.15, 10~20=±0.20, 20~40=±0.25, 40~70=±0.30, ≥70=±0.40

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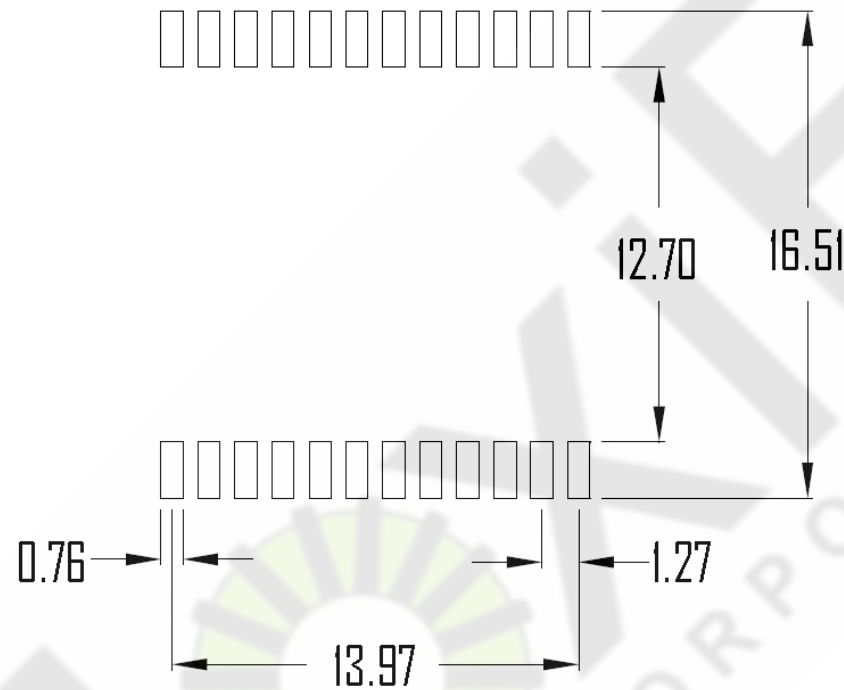
MOX-LAN-TRF-1712 SERIES

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REV. B

DWG NUMBER: MOXLANTRF1712

## PCB LAYOUT (mm)



### MOXIE NOTES:

- Meets 802.3 specifications.
- Packaging: Tray.
- Operating temperature range: -10°C to +70°C. (Industrial temperature of -40°C to +85°C available)
- Storage temperature range: -40°C to +125°C.
- RoHS-6 peak wave solder temperature rating 245°C.
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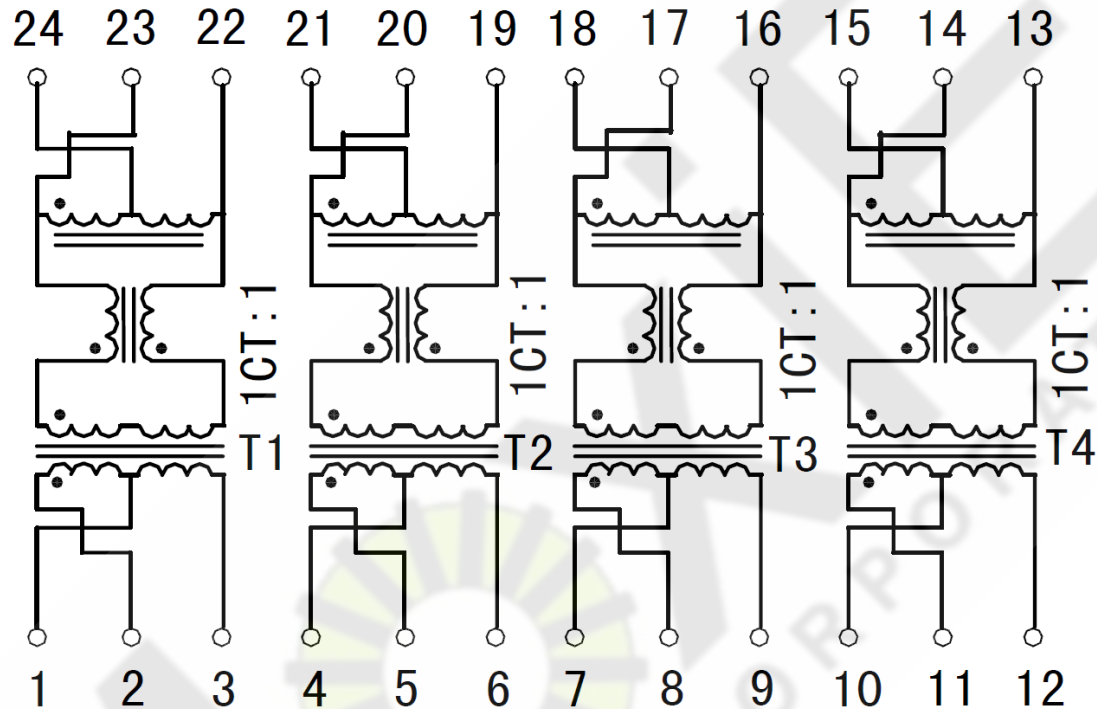
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REV. B

DWG NUMBER: MOXLANTRF1712

# SCHEMATICS

## MOX-LAN-TRF-1712A PACKAGE (NON-PoE)



### MOXIE NOTES:

- Meets 802.3 specifications.
- Packaging: Tray.
- Operating temperature range:  $-10^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ . (Industrial temperature of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  available)
- Storage temperature range:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .
- RoHS-6 peak wave solder temperature rating  $245^{\circ}\text{C}$ .
- RoHS Compliant.
- MoxiE Inductor Corporation custom designs are subject to United States copyright and or patent protection(s).
- MoxiE Inductor Corporation specifications are subject to change without notice.
- Tolerances unless otherwise specified:  $0\sim 10=\pm 0.15$ ,  $10\sim 20=\pm 0.20$ ,  $20\sim 40=\pm 0.25$ ,  $40\sim 70=\pm 0.30$ ,  $\geq 70=\pm 0.40$

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GIGABIT TRANSFORMER MODULES WITH PoE OPTION

MOX-LAN-TRF-1712 SERIES

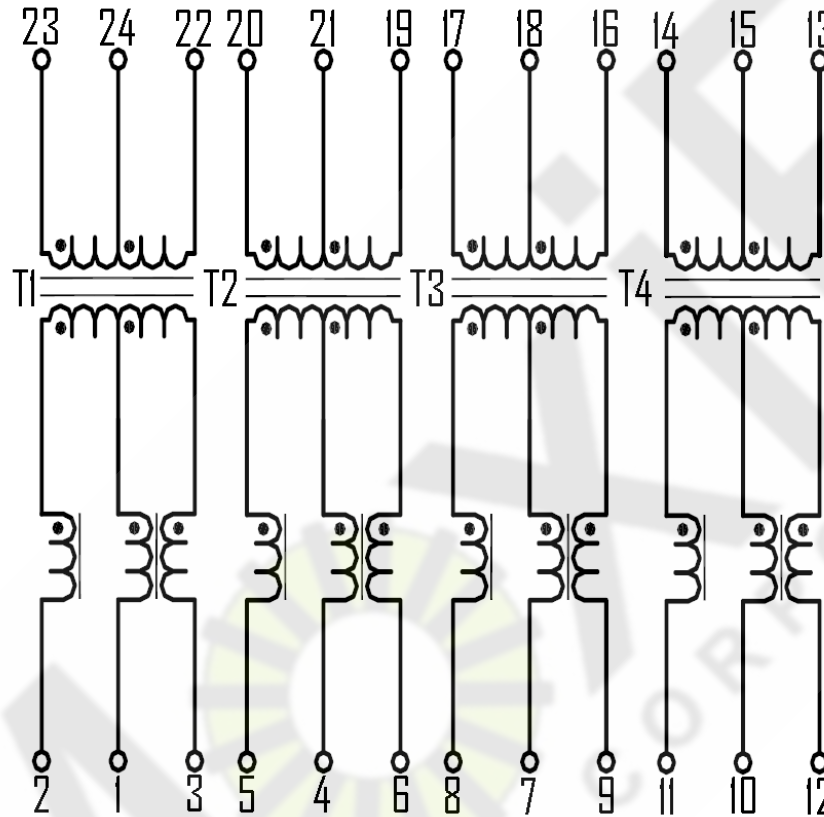
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REV. B

DWG NUMBER: MOXLANTRF1712

# SCHEMATICS

## MOX-LAN-TRF-1712B PACKAGE (PoE)



### MOXIE NOTES:

- Meets 802.3 specifications.
- Packaging: Tray.
- Operating temperature range:  $-10^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ . (Industrial temperature of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  available)
- Storage temperature range:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .
- RoHS-6 peak wave solder temperature rating  $245^{\circ}\text{C}$ .
- RoHS Compliant.
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- MoxiE Inductor Corporation specifications are subject to change without notice.
- Tolerances unless otherwise specified:  $0\sim 10=\pm 0.15$ ,  $10\sim 20=\pm 0.20$ ,  $20\sim 40=\pm 0.25$ ,  $40\sim 70=\pm 0.30$ ,  $\geq 70=\pm 0.40$

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GIGABIT TRANSFORMER MODULES WITH PoE OPTION

MOX-LAN-TRF-1712 SERIES

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REV. B

DWG NUMBER: MOXLANTRF1712

# ELECTRICAL @ 25°C

MOXIE PART NUMBER	PoE ENABLED	URNS RATIO (TX)	URNS RATIO (RX)	INSERTION LOSS (dB max)	RETURN LOSS (Z <sub>out</sub> =100Ω±15%)	CROSSTALK (ADJACENT CHANNELS dB MIN.)	HI-POT (V <sub>rms</sub> MIN.)
MOX-LAN-TRF-1712A	NO	1:1	1:1	-1.1 @ 0.1 MHz -1.0 @ 100MHz -2.0 @ 125MHz	-18 @ 30MHz -12 @ 60MHz -12 @ 80MHz -10 @ 100MHz	-43 @ 30MHz -37 @ 60MHz -33 @ 100MHz	1500
MOX-LAN-TRF-1712B	YES	1:1	1:1	-1.1 @ 0.1 MHz -1.0 @ 100MHz -2.0 @ 125MHz	-18 @ 30MHz -12 @ 60MHz -12 @ 80MHz -10 @ 100MHz	-43 @ 30MHz -37 @ 60MHz -33 @ 100MHz	1500

## MOXIE NOTES:

- Meets 802.3 specifications.
- Packaging: Tray.
- Operating temperature range: -10°C to +70°C. (Industrial temperature of -40°C to +85°C available)
- Storage temperature range: -40°C to +125°C.
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REV. B

DWG NUMBER: MOXLANTRF1712