

MODEM MAGNETICS

Global V.90 and V.34 Transformers

TM00403

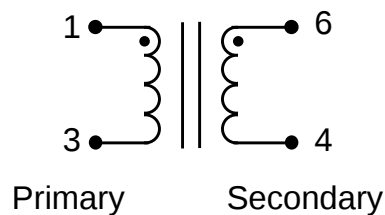
- Intended for use in high-speed modem applications
- Features very low interwinding capacitance, well-isolated windings, and low total harmonic distortion
- Qualified per Bellcore TR-TSY-000357-1
- Designed to comply with EN60950 requirements for a reinforced insulation barrier with a working voltage of 250V
- Approved by UL, CSA and BABT
- Minimum interwinding breakdown voltage of 3000 Vrms

ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Modem Speed	Turns Ratio ± 2%	Insertion Loss dB	Return Loss dB	Frequency Response dB	DCR Ω max		Harmonic Distortion dB	Longitudinal Balance dB
			@ 1 kHz	300 Hz - 1 kHz	100 Hz - 4000 Hz	Pri	Sec		300 Hz - 3500 Hz
2778A	V.90	1 : 1	≤ 1.2	≥ 18	≤ 0.5	69	69	≥ 86, -9 dBm, 300 Hz	≥ 60
2778B	V.34	1 : 1	≤ 1.2	≥ 20	≤ 0.5	69	69	≥ -80, -10 dBm, 600 Hz	≥ 60

SCHEMATIC

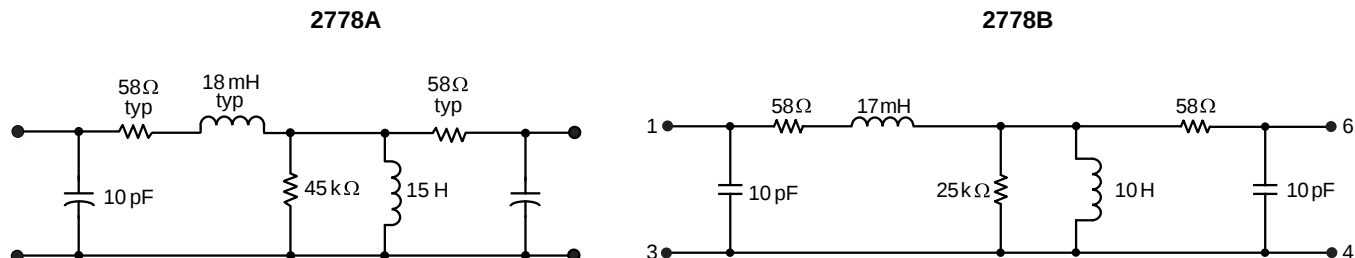
2778A
2778B



MODEM MAGNETICS

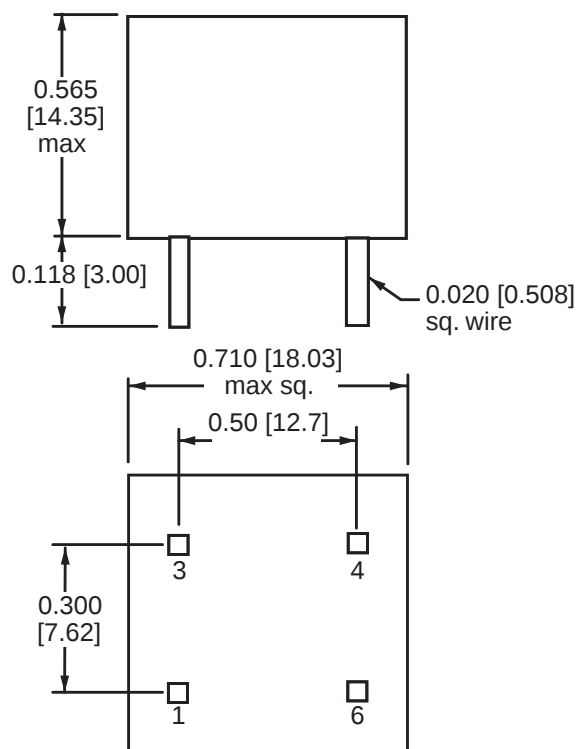
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TYPICAL SPICE TRANSMISSION MODEL



MECHANICAL

2778A
2778B



Note: Unless otherwise specified, dimensions are nominal and in inches [millimeters].

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