

Good Total Harmonic Distortion Characteristics.

Optimised Design For Size and Performance.

Transformers For Use With Analog Devices AD20MSP910 / AD20MSP918 ADSL Chipsets.

Designed meet UL 1950 Safety Requirements For Supplementary Insulation at 250V

ELECTRICAL SPECIFICATIONS @ 25°C (Operating Temperature : -40°C + 85°C)

Part Number	Turns Ratio + / - 2%	Inductance (OCL) (mH)	Leakage Inductance (uH max)	DC Resistance (Ω max)	Hi-Pot (Vac)	Package/ Application
TA2101EA	(1-4) / (10-7)=1.25	(1-4) w / 2-3 shorted 2 ± 10%	(1-4) 7.5	(1-3) = (2-4) (10-8) = (9-7) 1.25 1.5	1500	Transformer CO
TA5101S1	(1-4) / (10-7)=1.25	(1-4) w / 2-3 shorted 2 ± 10%	(1-4) 7.5	(1-3) = (2-4) (10-8) = (9-7) 1.25 1.5	1500	Transformer CO
TA2102EA	(1-4) / (10-7)=1	(1-4) w / 2-3 shorted 5 ± 10%	(1-4) 17	(1-3) = (2-4) (10-8) = (9-7) 1.75 1.75	1500	Transformer CO / CPE
TA5102S1	(1-4) / (10-7)=1	(1-4) w / 2-3 shorted 5 ± 10%	(1-4) 17	(1-3) = (2-4) (10-8) = (9-7) 1.75 1.75	1500	Transformer CO / CPE

Note

Inductance (OCL) is measured @ 10KHz, 0.1Vrms

Leakage Inductance is measured @ 100KHz, 0.1Vrms across pins indicated with rest of the pins shorted

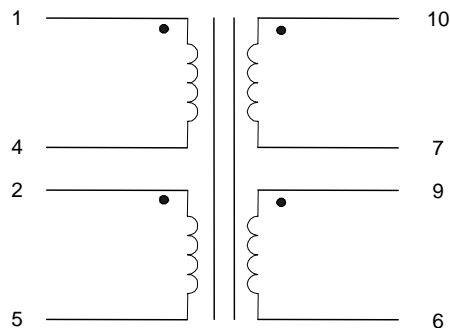
Harmonic Distortion (1 – 4) : -80dB max @ 30KHz, 15Vp-p , Source Resistance of 100Ω

Longitudinal Balance (1 – 4) : -40dB min @ 30KHz – 1.1MHz , Source Resistance of 100Ω

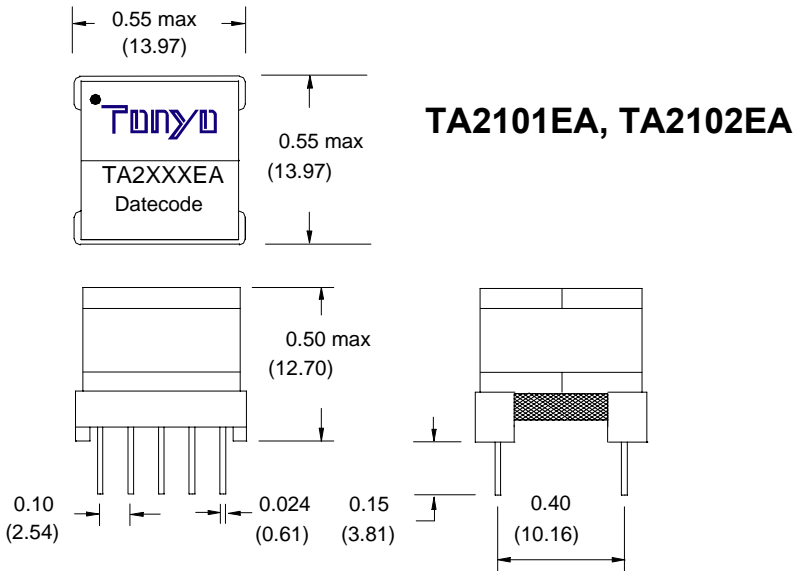
For complete parameters of components listed above, request for individual specification sheets

SCHEMATICS

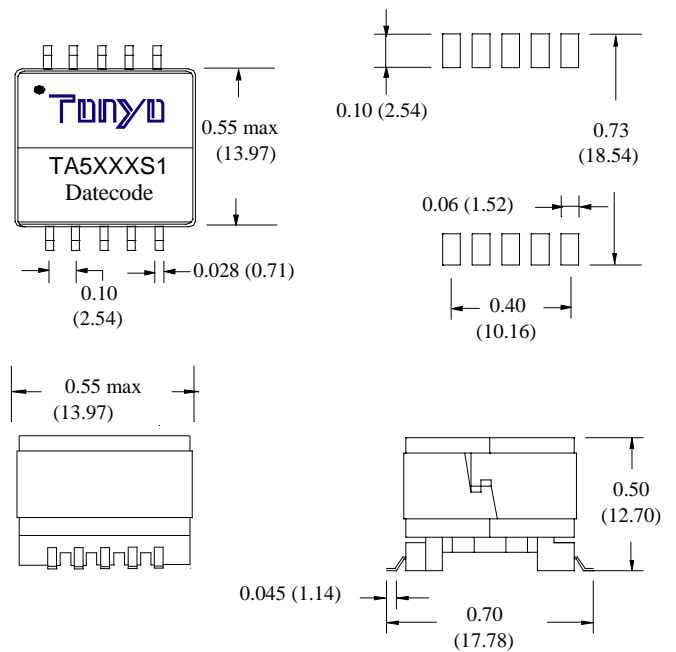
TA2101EA, TA5101S1, TA2102EA, TA5102S1



MECHANICAL SPECIFICATIONS



TA5101S1, TA5102S1



DIMENSIONS : INCHES (mm) UNLESS OTHERWISE SPECIFIED, ALL TOLERANCES ARE +/- 0.010 (0.254)

Specifications Subject To Change Without Prior Notice

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Good Total Harmonic Distortion Characteristics.

Transformers For Use With Conexant ADSL Chipsets.

Optimised Design For Size and Performance.

Designed meet UL 1950 Safety Requirements For Supplementary Insulation at 250V

ELECTRICAL SPECIFICATIONS @ 25°C (Operating Temperature : -40°C + 85°C)

Part Number	Turns Ratio + / - 2%	Inductance (OCL) (mH)	Leakage Inductance (uH max)	DC Resistance (Ω max)	Hi-Pot (Vac)	Package/ Application
TA2201EA	(1-5) / (10-6)=1:3.3	(10-6) w / 7-9 shorted 844 ± 10%	(10-6) 10	(10-7) = (9-6) = (1-4) = (2-5) 1.0 0.15	2000	Transformer CPE
TA5201S1	(1-5) / (10-6)=1:3.3	(10-6) w / 7-9 shorted 844 ± 10%	(10-6) 10	(10-7) = (9-6) = (1-4) = (2-5) 1.0 0.15	2000	Transformer CPE

Note

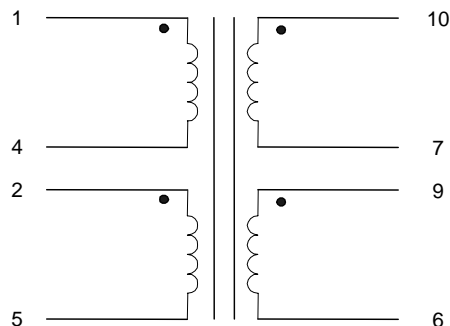
Inductance (OCL) is measured @ 10KHz, 0.1Vrms

Leakage Inductance is measured @ 100KHz, 0.1Vrms across pins indicated with rest of the pins shorted

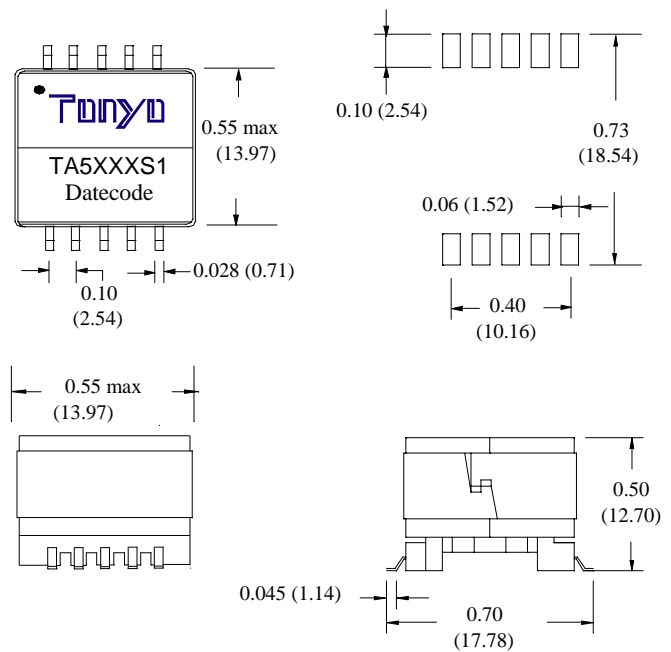
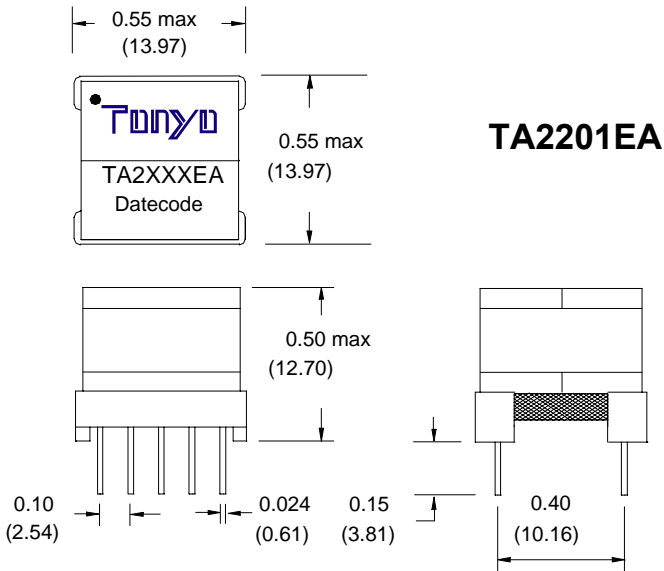
For complete parameters of components listed above, request for individual specification sheets

SCHEMATICS

TA2201EA, TA5201S1



MECHANICAL SPECIFICATIONS



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4.1.4

Good Total Harmonic Distortion Characteristics.

Optimised Design For Size and Performance.

Isolation Voltage Up To 3000Vrms

Meets Design Standard For ANSI & ETSI

Transformers For Use With GLOBESPAN ADSL Chipsets : Central Office & Customer Premises

Designed meet UL 1950 Safety Requirements For Supplementary Insulation at 250V

ELECTRICAL SPECIFICATIONS @ 25°C (Operating Temperature : -40°C + 85°C)

Part Number	Turns Ratio + / - 2%	Inductance (OCL) (mH)	Leakage Inductance (uH max)	DC Resistance (Ω max)	Hi-Pot (Vac)	Package/ Application
TA2301EB	1.4:1.4:1:1	(1-4) w / 2-3 shorted:940± 10% (10-7) w / 8-9 shorted:470±	(1-4) 15	(1-3) = (2-4) (10-8) = (9-7) 1.2 1.0	1500	Transformer CO
TA2302EB	1:1:1:1	(1-4) w / 2-3 shorted:407± 10%	(1-4) 10	(1-3) = (2-4) (10-8) = (9-7) 0.8 0.8	1500	Transformer CPE
TA2303EB	1.4:1.4:1:1	(1-4) w / 2-3 shorted:940± 10% (10-7) w / 8-9 shorted:470±	(1-4) 15	(1-3) = (2-4) (10-8) = (9-7) 1.2 1.0	3000	Transformer CO
TA2304EB	1:1:1:1	(1-4) w / 2-3 shorted:407± 10%	(1-4) 10	(1-3) = (2-4) (10-8) = (9-7) 0.8 0.8	3000	Transformer CPE
TA2301EA	1:1:1:1	(1-4) w / 2-3 shorted:407± 5%	(1-4) 10	(1-3) = (2-4) (10-8) = (9-7) 0.7 0.6	1500	Transformer CPE
TA5301S1	1:1:1:1	(1-5) w / 4-2 shorted:407± 5%	(1-5) 10	(1-4) = (2-5) (10-7) = (9-6) 0.45 0.35	1500	Transformer CPE
TA5302S1	1:1:1:1	(1-5) w / 4-2 shorted:407± 5%	(1-5) 10	(1-3) = (2-4) (10-7) = (9-6) 0.55 0.5	1500	Transformer CPE

Note

Inductance (OCL) is measured @ 10KHz, 0.1Vrms

Leakage Inductance is measured @ 100KHz, 0.1Vrms across pins indicated with rest of the pins shorted

Harmonic Distortion : -80dB max @ 100KHz, 15Vp-p

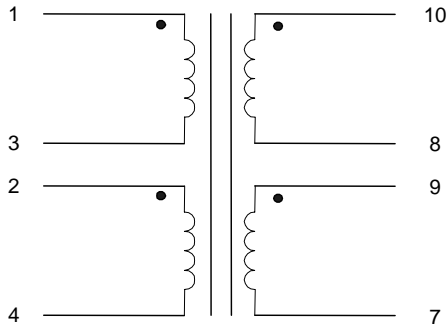
Longitudinal Balance : -60dB min @ 30KHz – 1.1MHz

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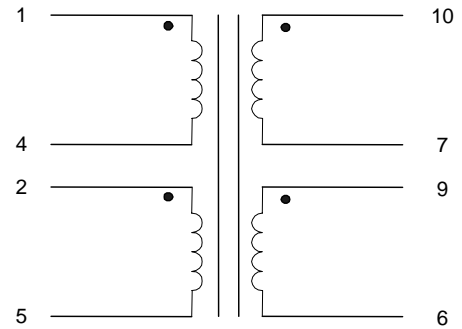
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SCHEMATICS

TA2301EB, TA2301EB, TA2301EB, TA2301EB, TA2301EA

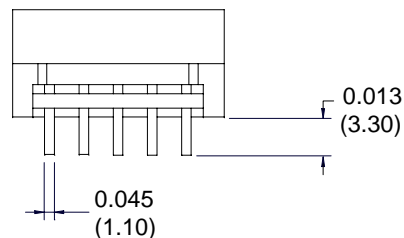
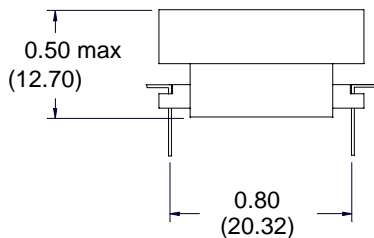
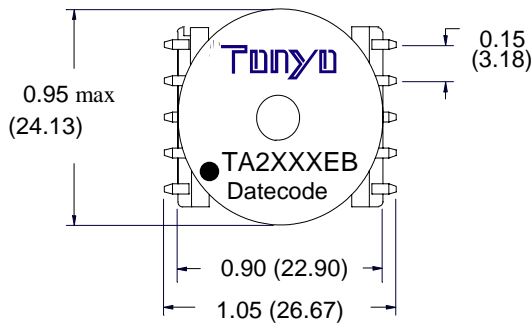


TA5301S1, TA5302S1



MECHANICAL SPECIFICATIONS

TA2301EB, TA2301EB, TA2301EB, TA2301EB



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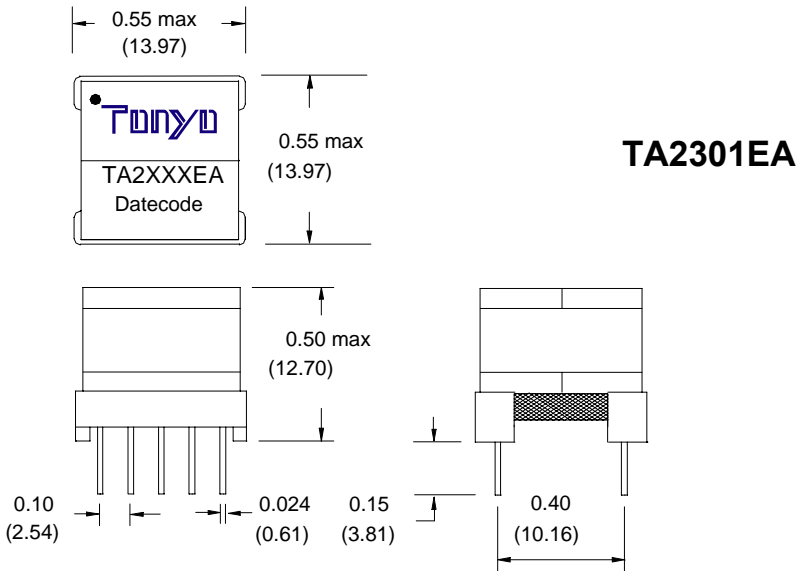
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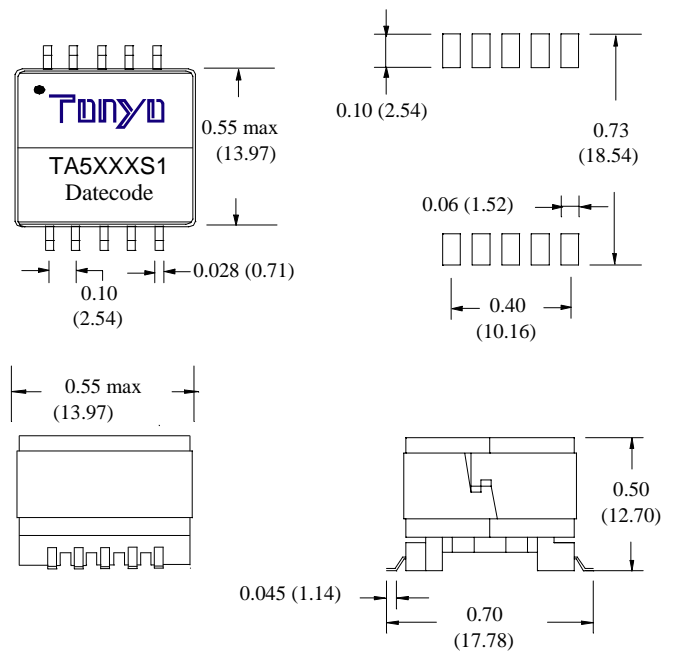
4.1.6

ADSL MAGNETICS

MECHANICAL SPECIFICATIONS



**TA5301S1,
TA5302S1**



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