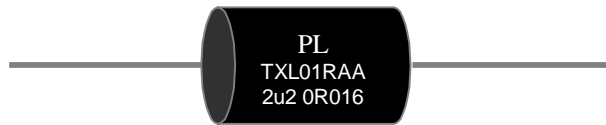




TXL01 RANGE OF AXIAL INDUCTORS



TECHNICAL DESCRIPTION:

Primeworld TXL01--- range of axial inductors are manufactured in three different mechanical outlines, (**R, S, T**), providing a wide range of inductance values with peak energy storage, ($1/2 LI^2$) capabilities of 40uJ, 55uJ, and 75uJ, respectively.

Windings are enamelled copper wire, wound on a drum shaped bobbin core, terminated using SnAgCu solder on to tin plated copper leads. The inductor is moulded in 30% glass reinforced flame retardant Nylon 46 (Stanyl TE250F6) providing an environmental and mechanical protection that withstands assembly process temperatures of up to 260 deg C.

The TXL01 range is designed for use in power supplies, dc/dc converters and inverters, EMI/RFI noise suppression, and smoothing choke applications.

RATINGS AND CHARACTERISTICS:

Maximum Working Voltage: 250V ac rms., 400V dc

Rated current: See tables for TXL01--- range

Inductance: See tables for TXL01--- range

DC Resistance: See tables for TXL01--- range

Climatic category: 25/105/56

Maximum temperature range:

Operating: -25 to +105 °C

Storage: -55 to 125 °C

Mass:

Size R: 2.5g max

Size S: 5g max

Size T: 7.5g max

Vibration: Frequency sweep of 10Hz to 55Hz with 0.35mm displacement for 6 hours. IEC68-2-6 Test Fc

Requirement: No visible damage, Inductance +/- 10%

Bump: 1000 bumps of each 16ms with acceleration of 98m/s. IEC68-2-29 Test Eb

Requirement: No visible damage, Inductance +/- 10%.

Resistance to soldering heat: Solder bath for 10s @ 260 °C, 6mm from body IEC68-2-20A Method 1B

Solderability: Maximum soldering time, 2.5s @ 260 °C Solder globule test, IEC 68-2-20Ta.

Robustness of terminations:

1Kg (10N) IEC 68-2-21 Test Ua Tensile
500g (5N) IEC 68-2-21 Test Ub Bending

Requirement: No visible damage to the body. No deviation in nominal inductance and dc resistance.

INSPECTION REQUIREMENTS

Visual inspection: Random Sample

Failure Criteria:

- | | |
|---------|---|
| Marking | - Non-legible marking.
- Missing or double marking. |
| Package | - Dimensions out of tolerance.
- Broken or damaged plastic.
- Contamination by oil, flux, etc.
- Voids, holes or cracks. |
| Leads | - Broken, twisted, cracked or loose leads.
- More than 5% non-plated surface in the soldering area.
- Blistering, peeling or other surface defects exposing base material.
- Lead dimensions out of tolerance.
- Contamination by oil, flux, etc. |
| Packing | - Inconsistent mechanical strength.
- Incorrect labelling and sealing.
- Incorrect quantity and type. |

Inductance: 100%

Limits:

+/- 20% for L < 10uH @ 100KHz, 0.1V ac rms.

+/- 10% for L > 10uH @ 10KHz, 0.1V ac rms.

DC resistance: 100%

Limits: +5% -10%.

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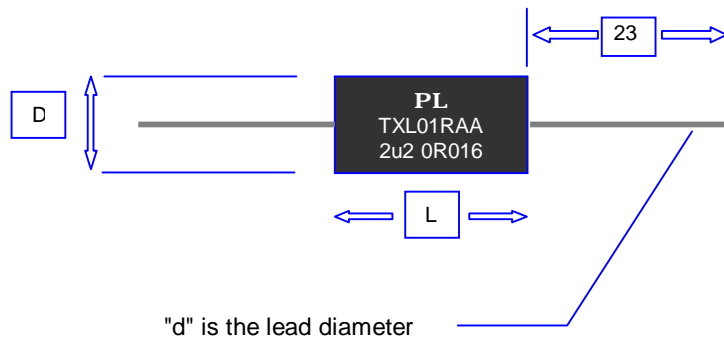
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TXL01-- RANGE:

	NOMINAL	DC	CONTINUOUS	DC
CODE	INDUCTANCE	RESISITANCE	DC CURRENT	CURRENT (A)
SIZE...R_	(uH) @ 1KHz	(OHM) MAX	(A) @ 40 o C	@ 90% Lnom
TXL01RAA	2.2	0.016	3.95	6.03
TXL01RAB	3.3	0.020	3.51	4.92
TXL01RAC	4.7	0.024	3.21	4.13
TXL01RAD	6.8	0.030	2.89	3.43
TXL01RAE	10	0.037	2.60	2.83
TXL01RAF	15	0.047	2.31	2.31
TXL01RAG	22	0.060	2.04	1.91
TXL01RAH	33	0.080	1.77	1.56
TXL01RAI	47	0.198	1.13	1.30
TXL01RAJ	68	0.245	1.01	1.08
TXL01RAK	100	0.332	0.87	0.89
TXL01RAL	150	0.503	0.71	0.73
TXL01RAM	220	0.699	0.60	0.60
TXL01RAP	330	1.251	0.45	0.49
TXL01RAQ	470	1.583	0.40	0.41
TXL01RAR	680	1.904	0.36	0.34
TXL01RAS	820	2.300	0.33	0.31
TXL01RAW	1000	2.689	0.30	0.28
TXL01RAX	1500	4.697	0.23	0.23
TXL01RAY	2200	6.321	0.20	0.19
TXL01RAZ	3300	8.709	0.17	0.16
SIZE...S_				
TXL01SAA	2.2	0.017	4.48	6.82
TXL01SAB	3.3	0.021	4.05	5.57
TXL01SAC	4.7	0.026	3.70	4.66
TXL01SAD	6.8	0.031	3.38	3.88
TXL01SAE	10	0.037	3.07	3.20
TXL01SAF	15	0.048	2.70	2.61
TXL01SAG	22	0.058	2.46	2.16
TXL01SAH	33	0.071	2.22	1.76
TXL01SAI	47	0.095	1.92	1.47
TXL01SAJ	68	0.114	1.75	1.23
TXL01SAK	100	0.141	1.57	1.01
TXL01SAL	150	0.180	1.39	0.83
TXL01SAM	220	0.249	1.19	0.68
TXL01SAP	330	0.607	0.76	0.56
TXL01SAQ	470	0.766	0.68	0.47
TXL01SAR	680	0.971	0.60	0.39
TXL01SAS	820	1.132	0.56	0.35
TXL01SAW	1000	1.300	0.52	0.32
TXL01SAX	1500	2.159	0.40	0.26
TXL01SAY	2200	2.824	0.35	0.22
TXL01SAZ	3300	3.846	0.30	0.18

	NOMINAL	DC	CONTINUOUS	DC
CODE	INDUCTANCE	RESISITANCE	DC CURRENT	CURRENT (A)
SIZE...T__	(uH) @ 1KHz	(OHM) MAX	(A) @ 40 o C	@ 90% Lnom
TXL01TAA	2.2	0.016	5.55	8.10
TXL01TAB	3.3	0.020	5.01	6.62
TXL01TAC	4.7	0.024	4.59	5.54
TXL01TAD	6.8	0.030	4.09	4.61
TXL01TAE	10	0.036	3.71	3.80
TXL01TAF	15	0.044	3.35	3.10
TXL01TAG	22	0.054	3.05	2.56
TXL01TAH	33	0.066	2.75	2.09
TXL01TAI	47	0.079	2.52	1.75
TXL01TAJ	68	0.099	2.25	1.46
TXL01TAK	100	0.123	2.02	1.20
TXL01TAL	150	0.160	1.77	0.98
TXL01TAM	220	0.201	1.58	0.81
TXL01TAP	330	0.343	1.21	0.66
TXL01TAQ	470	0.431	1.08	0.55
TXL01TAR	680	0.562	0.94	0.46
TXL01TAS	820	0.646	0.88	0.42
TXL01TAW	1000	0.823	0.78	0.38
TXL01TAX	1500	1.461	0.59	0.31
TXL01TAY	2200	1.913	0.51	0.26
TXL01TAZ	3300	2.641	0.44	0.21

Mechanical Data



SIZE	L	D	d
R	14	8	0.6
S	18	10	0.8
T	18	12	0.8

ALL DIMENSIONS ARE IN mm

TOLERANCE +/- 5%

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