PRIMEWORLD LIMITED

TXL14A RANGE OF MINIATURE HIGH CURRENT AXIAL INDUCTORS





TECHNICAL DESCRIPTION:

Primeworld TXL14--- range of high current axial inductors are manufactured in one mechanical outline, providing a wide range of inductance values with peak energy storage, (1/2 LI²), capability of up to 275uJ.

Windings are enamelled copper wire, wound on a 5x15mm rod core. Tinned lead-outs are held in place with black heat shrink sleeve around the bobbin core.

The TXL14A range is designed for use in power supplies, dc/dc converters, inverters and smoothing choke applications.

RATINGS AND CHARACTERISTICS:

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

Rated current: See tables for TXL14A-- range

Inductance: See tables for TXL14A-- range

DC Resistance: See tables for TXL14A-- range

Climatic category: 25/105/56

Maximum temperature range:

Operating: -25 to +105 °C

Storage: -55 to 125 °C

Mass:

8g 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 3s @ 350 °C, 6mm from body IEC68-2-20A Method 1B

Solderability: Maximum soldering time, 2.5s @ 235 °C Solder globule test, IEC 68-2-20Ta.

Robustness of terminations:

500g (5N) 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, cracked or loose leads.

- More than 10% non-plated surface in the soldering area.

- Blistering, peeling or other surface defects exposing

base material.

- 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%.

PRIMEWORLD LIMITED

Derwent, Sawbridgeworth Road, Hatfield Heath, Bishop's Stortford, HERTS, CM22 7DR

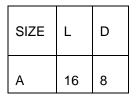
Tel: 01279 730031 sales@primeworld.co.uk www.primeworld.co.uk

TXL14A-- RANGE:

	NOMINAL	DC	CONTINUOUS	DC	Lead Dia.
CODE	INDUCTANCE	RESISITANCE	DC CURRENT	CURRENT (A)	d
SIZEP	(uH) @ 1KHz	(OHM) MAX	(A) @ 40 ° C	@ 90% Lnom	(mm) MAX
TXL14AAA	2.2	0.0055	10	16	1.0
TXL14AAB	3.3	0.01	7	13	8.0
TXL14AAC	4.7	0.02	5	11	0.71
TXL14AAD	6.8	0.03	4	9	0.56
TXL14AAE	10	0.055	3	7.4	0.45
TXL14AAF	15	0.110	2.2	6	0.355
TXL14AAG	22	0.16	1.8	5	0.315

Mechanical Data





.ALL DIMENSIONS ARE IN mm

LEADOUT TOLERANCES +/20%, L & D max.

Specifications and information contained in this data sheet are intended for guidance only. The Company's policy is one of continuous improvement and the right to change materials, designs, dimensions and descriptive matter, etc. at any time without notice is reserved.

Primeworld shall not be liable for any loss, direct or consequential, which may result from the use of this information.

© 2000 Primeworld Limited

PRIMEWORLD LIMITED

Derwent, Sawbridgeworth Road, Hatfield Heath, Bishop's Stortford, HERTS, CM22 7DR

Tel: 01279 730031 sales@primeworld.co.uk www.primeworld.co.uk