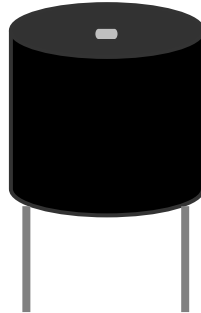


TXL02 RANGE OF RADIAL POWER INDUCTORS



TECHNICAL DESCRIPTION:

Primeworld TXL02--- range of high current radial inductors are manufactured in two different mechanical outlines, (**Q and R**), providing a wide range of inductance values with peak energy storage, ($1/2 LI^2$) capabilities of 1500uJ and 2500uJ, respectively.

Windings are enamelled copper wire, wound on a drum shaped bobbin core. Tinned lead-outs are held in place with black heat shrink sleeve around the bobbin core. Lead-outs of the taller TXL02R-- range are also secured on to a flame retardant glass filled nylon 66 base.

The TXL02 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: 270V ac rms., 400V dc

Rated current: See tables for TXL02--- range

Inductance: See tables for TXL02--- range

DC Resistance: See tables for TXL02--- range

Climatic category: 25/105/56

Maximum temperature range:

Operating: -25 to +105 °C

Storage: -55 to 125 °C

Mass:

Size Q: 30g max

Size R: 50g 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:

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: +/- 10% @ 10KHz, 0.1V ac rms.

DC resistance: 100%

Limits: +5% -10%.

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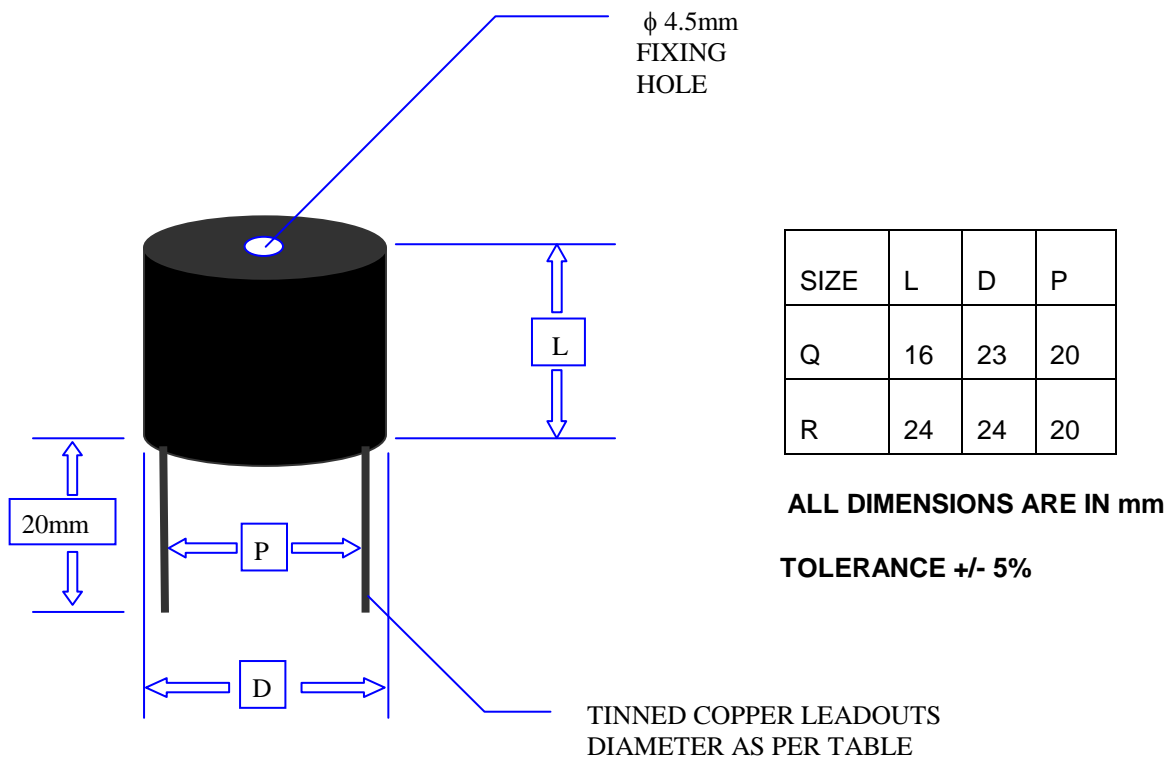
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TXL02-- RANGE:

	NOMINAL	DC	CONTINUOUS	DC	Lead Dia.
CODE	INDUCTANCE	RESISITANCE	DC CURRENT	CURRENT (A)	d
	(uH) @ 1KHz	(OHM) MAX	(A) @ 40 o C	@ 90% L _{nom}	(mm) MAX
TXL02QRA	10	0.007	13.80	15.81	1.3
TXL02QRB	15	0.009	12.47	12.91	1.3
TXL02QRC	22	0.011	11.33	10.66	1.3
TXL02QRD	33	0.015	9.48	8.70	1.3
TXL02QRE	47	0.019	8.41	7.29	1.3
TXL02QRF	68	0.032	6.51	6.06	1.1
TXL02QRG	100	0.043	5.58	5.00	1.1
TXL02QRH	150	0.066	4.51	4.08	0.9
TXL02QRI	220	0.105	3.59	3.37	0.9
TXL02QRJ	330	0.172	2.80	2.75	0.8
TXL02QRK	470	0.226	2.44	2.31	0.7
TXL02QRL	680	0.282	2.19	1.92	0.7
TXL02QRM	1000	0.418	1.80	1.58	0.7
TXL02QRP	1500	0.602	1.50	1.29	0.6
TXL02QRR	2200	1.016	1.15	1.07	0.5
TXL02QRS	3300	1.778	0.87	0.87	0.5
TXL02QRT	4700	2.263	0.77	0.73	0.5
TXL02QRU	6800	3.463	0.62	0.61	0.4
TXL02QRW	8200	3.803	0.60	0.55	0.4
TXL02QRX	10000	4.640	0.54	0.50	0.4
TXL02RRA	10	0.006	15.59	18.71	1.5
TXL02RRB	15	0.008	14.09	15.28	1.5
TXL02RRC	22	0.010	12.17	12.61	1.5
TXL02RRD	33	0.012	10.99	10.30	1.5
TXL02RRE	47	0.015	9.91	8.63	1.5
TXL02RRF	68	0.020	8.76	7.17	1.5
TXL02RRG	100	0.041	6.04	5.92	1.1
TXL02RRH	150	0.052	5.37	4.83	1.1
TXL02RRI	220	0.067	4.73	3.99	1.1
TXL02RRJ	330	0.080	4.34	3.26	1.1
TXL02RRK	470	0.153	3.13	2.73	0.9
TXL02RRL	680	0.279	2.32	2.27	0.7
TXL02RRM	1000	0.349	2.07	1.87	0.7
TXL02RRP	1500	0.454	1.82	1.53	0.7
TXL02RRR	2200	0.822	1.35	1.26	0.6
TXL02RRS	3300	1.101	1.17	1.03	0.6
TXL02RRT	4700	1.829	0.91	0.86	0.5
TXL02RRU	6800	2.200	0.83	0.72	0.5
TXL02RRW	8200	2.494	0.78	0.65	0.5
TXL02RRX	10000	2.797	0.73	0.59	0.5

Mechanical Data



**NOTE: INDUCTORS ARE INDELIBLY MARKED WITH MANUFACTURER'S CODE, "PL"
PART CODE PLUS VALUE e.g. "TXL02RRM 1mH 0R35", AND BATCH CODE.**

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