

# 毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

## ULTAR HIGH CURRENT SMT POWER INDUCTORS

### YXEL4020/YXEL4030 SERIES

#### 1.FEATURES

- . High performance (I Sat) realized by metal dust core.
- . Low loss realized with low DCR .
- . Capable of corresponding high frequency (1MHz)
- . Ultra low buzz noise, due to composite construction.
- . 100% lead (Pb) free meet RoHS Standard.

#### 2.APPLICATIONS

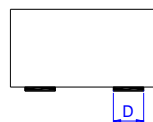
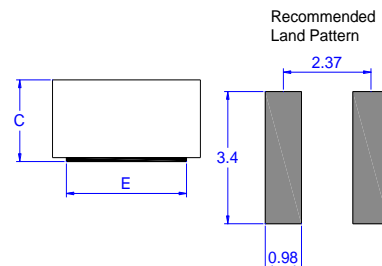
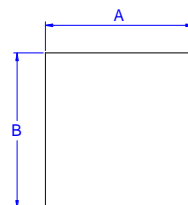
- . DC/DC converter for CPU in notebook PC.
- . Thin type on-board power supply module for exchanger.
- . VRM for server.

#### 3.PART NUMBERING SYSTEM

YXEL            4020    -    800            M  
1                    2                    3                    4

SERIES NAME    DIMENSIONS    INDUCTANCE    TOLERANCE

#### 4.MECHANICAL DRAWING



#### 5.DINENSIONS (UNIT:mm)

No.	SERIES	A (MAX)	B (MAX)	C (MAX)	D	E
1	YXEL4020	4.3	4.3	2.1	0.82typ.	3.25typ.
2	YXEL4030	4.3	4.3	3.1	0.82typ.	3.25typ.

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# 毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

## ULTAR HIGH CURRENT SMT POWER INDUCTORS

### 大电流一体成型功率电感

#### YXEL4020 SERIES

#### Electrical Specification

PART NUMBER	INDUCTANCE (uH)	DCR(mΩ)		SRF(MHz)	Isat (A)	Irms(A)	
	±20%	typ.	Max.	typ.		20°C rise	40°C rise
YXEL4020-800M	0.08	1.50	1.80	305	33.20	15.50	21.40
YXEL4020-101M	0.10	2.04	2.50	280	28.50	14.60	19.90
YXEL4020-201M	0.20	3.04	3.35	180	19.70	14.00	17.20
YXEL4020-331M	0.33	5.18	5.70	124	15.70	11.90	15.40
YXEL4020-561M	0.56	8.00	8.80	90	11.30	9.90	13.80
YXEL4020-821M	0.82	11.80	13.00	69	10.20	8.10	11.50
YXEL4020-102M	1.00	13.25	14.60	68	9.00	6.70	9.60
YXEL4020-122M	1.20	17.75	19.50	59	8.10	6.60	9.00
YXEL4020-152M	1.50	21.45	23.60	54	7.40	5.20	7.50
YXEL4020-222M	2.20	35.20	38.70	41	5.90	4.00	5.50

1.Tolerance:N±30%,M:±20%,L:±15%,K:±10%,J±5%.

2.I sat: The current will cause L0 to drop approximately 30% typical.

3.I rms: The current will cause the coil temperature rise approximately  $\Delta T=40^{\circ}\text{C}$  without core loss.

4.Operating temperature : -55 °C to 125 °C.

5.Unspecified values available on request.

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## ULTAR HIGH CURRENT SMT POWER INDUCTORS

### 大电流一体成型功率电感

#### YXEL4030 SERIES

#### Electrical Specification

PART NUMBER	INDUCTANCE (uH)	DCR(mΩ)		SRF(MHz)	Isat (A)	I <sub>rms</sub> (A)	
	±20%	typ.	Max.	typ.		20°C rise	40°C rise
YXEL4030-101M	0.10	1.50	1.80	240	30.00	20.40	25.80
YXEL4030-201M	0.20	2.15	2.40	155	22.00	17.00	21.60
YXEL4030-301M	0.30	2.80	3.10	115	19.00	14.90	18.90
YXEL4030-471M	0.47	4.10	4.60	95	15.50	12.30	15.60
YXEL4030-641M	0.64	5.30	5.90	80	13.50	10.90	13.70
YXEL4030-901M	0.90	8.00	8.80	68	10.00	8.80	11.20
YXEL4030-102M	1.00	8.89	9.78	65	9.00	8.40	10.70
YXEL4030-122M	1.20	10.40	11.50	60	8.70	7.80	9.80
YXEL4030-152M	1.50	15.10	16.60	58	8.50	6.40	8.10
YXEL4030-222M	2.20	20.10	22.10	40	6.10	5.80	7.80
YXEL4030-332M	3.30	26.10	28.60	35	5.90	5.00	6.60
YXEL4030-472M	4.70	40.00	44.10	30	4.60	3.90	5.10
YXEL4030-682M	6.80	67.40	74.10	20	3.60	3.00	3.90

1.Tolerance:N±30%,M:±20%,L:±15%,K:±10%,J±5%.

2.I<sub>sat</sub>: The current will cause L<sub>0</sub> to drop approximately 30% typical.

3.I<sub>rms</sub>: The current will cause the coil temperature rise approximately  $\Delta T=40^{\circ}\text{C}$  without core loss.

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