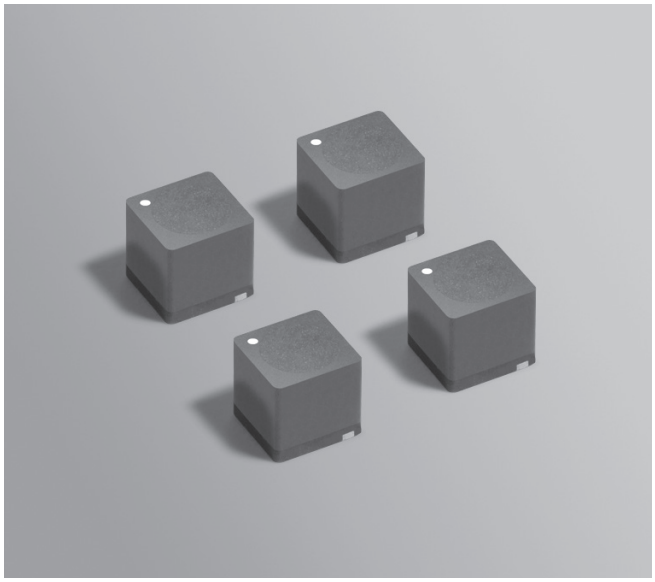
NEW!

Shielded Power Inductors – KTA3030

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C



- Small and compact package size – only 3.2 x 3.0 x 3.2 mm
- Low inductance for fast transient response and high power in multi-phase solution
- Soft saturation with high current rating
- Exceptionally low power losses
- AEC-Q200 qualified

Core material Composite

Environmental RoHS compliant, halogen free

Terminations RoHS tin-silver (96.5/3.5) over copper. Other terminations available at additional cost.

Weight 0.18 g

Operating voltage: 100 V[7]

Ambient temperature –40°C to +125°C with (40°C rise) Irms current.

Maximum part temperature +165°C (ambient + temp rise).

Storage temperature Component: –55°C to +165°C. Tape and reel packaging: –55°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash.

Part number[1]	Inductance[2] ±20% (nH)	DCR (mOhms)[3] typ	DCR (mOhms)[3] max	SRF typ[4] (MHz)	Isat (A)[5] 10% drop	Isat (A)[5] 20% drop	Isat (A)[5] 30% drop	Irms (A)[6] 20°C rise	Irms (A)[6] 40°C rise
KTA3030-400MEC	40	0.83	1.0	650	22.0	38.0	56.0	30.5	41.6
KTA3030-620MEC	62	0.83	1.0	455	22.0	36.0	50.0	30.5	41.6
KTA3030-820MEC	82	1.38	1.6	480	17.9	31.0	46.0	23.3	31.8
KTA3030-131MEC	130	1.38	1.6	330	15.5	25.5	36.0	23.3	31.8
KTA3030-241MEC	240	2.52	2.9	235	11.7	18.9	26.5	17.2	23.6
KTA3030-391MEC	390	4.65	5.35	195	9.4	14.9	20.0	12.1	16.3

1. When ordering, please specify **packaging** code:

KTA3030-391MEC

Termination: E= Halogen free component. RoHS compliant RoHS tin-silver (96.5/3.5) over copper terminations.

Packaging: C = 7″ machine-ready reel. EIA-481 embossed plastic tape (600 per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).

D = 13″ machine-ready reel. EIA-481 embossed plastic tape (2000 per full reel). Factory order only, not stocked.

2. Inductance tested at 1 MHz, 0.1 Vrms, 0 Adc.
3. DCR measured on a micro-ohmmeter.
4. SRF measured using Agilent/HP 4395A or equivalent.
5. DC current at 25°C that causes an inductance drop of 30% (typ) from its value without current. Click for temperature derating information.
6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Click for temperature derating information.
7. Voltage capability varies by part number and in many cases may be higher than the listed voltage.
8. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Irms Testing

Irms testing was performed on 0.75 inch wide × 0.25 inch thick copper traces in still air.

Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.

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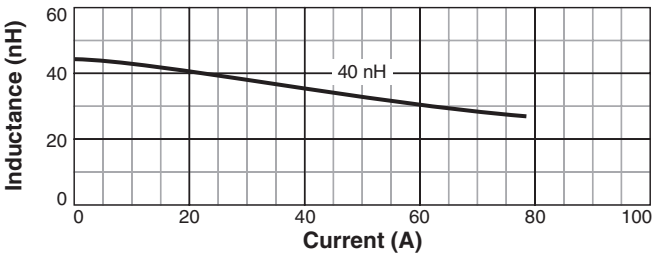
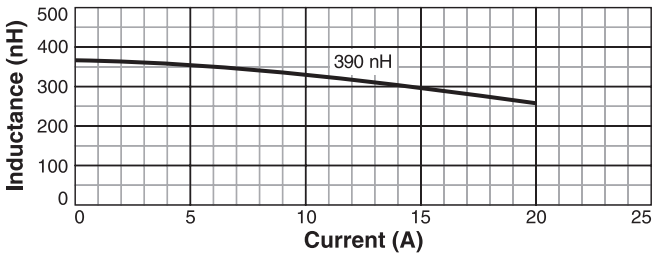
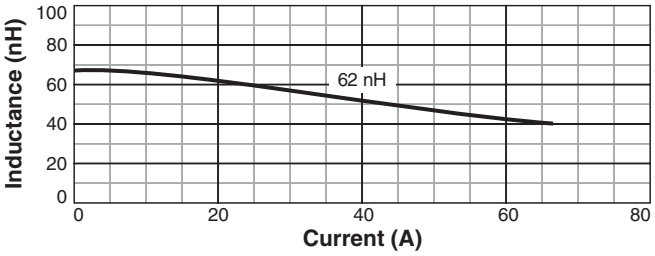
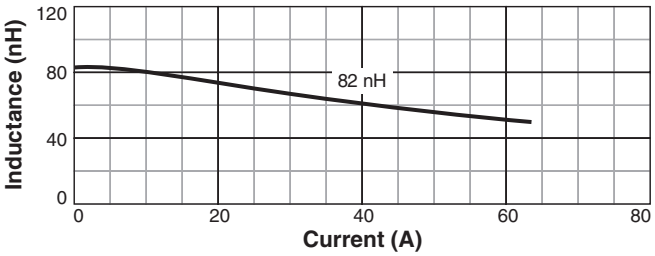
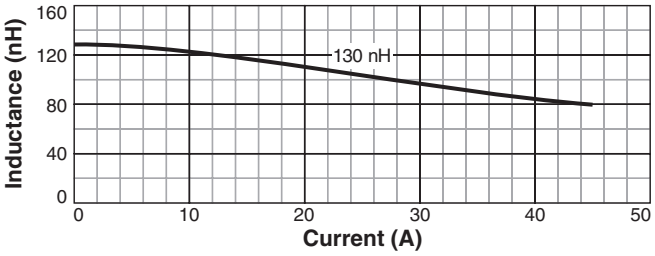
L vs Current

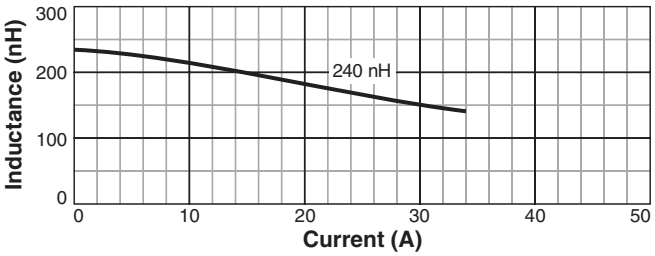












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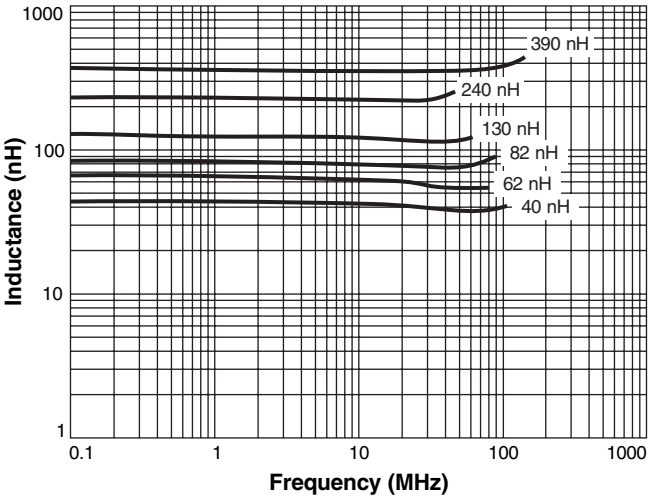
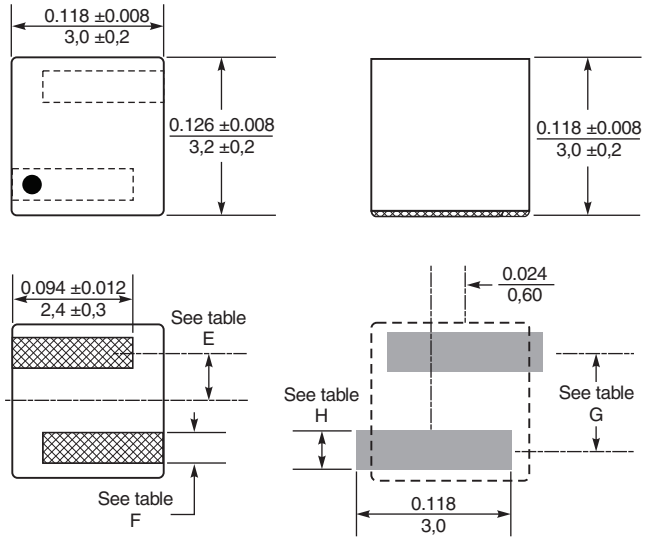
Shielded Power Inductors – KTA3030

Typical L vs Frequency



Dimensions



Dimensions are in inches / mm

Recommended Land Pattern

Dash	E min	E max	F min	F max	G typ	H typ	
400	0.030	0.041	0.033	0.041	0.071	0.048	in
	0.77	1.03	0.85	1.05	1.80	1.22	mm
620	0.030	0.041	0.033	0.041	0.071	0.048	in
	0.77	1.03	0.85	1.05	1.80	1.22	mm
820	0.036	0.046	0.026	0.034	0.082	0.041	in
	0.91	1.17	0.67	0.87	2.08	1.04	mm
131	0.036	0.046	0.026	0.034	0.082	0.041	in
	0.91	1.17	0.67	0.87	2.08	1.04	mm
241	0.037	0.047	0.019	0.027	0.083	0.033	in
	0.93	1.19	0.48	0.68	2.12	0.85	mm
391	0.037	0.048	0.015	0.023	0.085	0.030	in
	0.95	1.21	0.38	0.58	2.16	0.75	mm

Packaging 600/7″ reel; 2000/13″ reel Plastic tape: 12 mm wide, 0.4 mm thick, 8 mm pocket spacing, 3.3 mm pocket depth

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