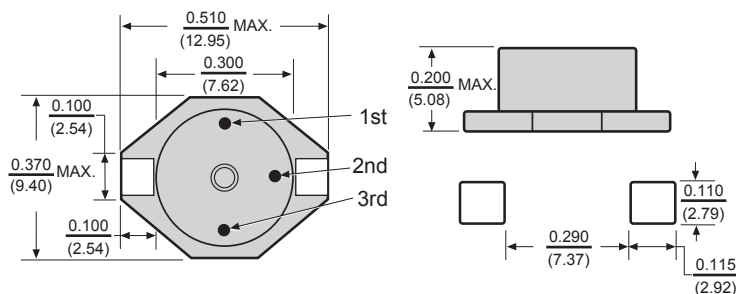


# PCIT40 Power Chip Shielded Inductors



Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



## Features

- Magnetically shielded
- Cost effective miniature power inductor
- Swinging Inductance vs current characteristics
- Designed for current spikes as high as twice the rated current
- Wrap around terminals for excellent solderability and inspection
- Designed with high heat resistance materials for reflow operation
- Flat top for pick and place assembly
- Non standard values available

## Electrical

**Inductance Range:** 1.0 $\mu$ h to 1000 $\mu$ h.

**Tolerance:**  $\pm$  20% over the entire inductance range.

**Test Frequency :** Inductance measured at 100KHz, 0.1Vrms.

**Operating Temp. Range:** -40° to +85°C.

**Current Rating:** See foot notes and graphs

## Physical

**Marking:** Color Code using standard EIA three dot system.

**Packaging:** 750 pieces per 13 inch reel.

Allied Part Number	Inductance @0Adc( $\mu$ h)	DCR Max. ( $\Omega$ )	SRF Typical (MHz)	Inductance* ( $\mu$ h)	Rated Current** (A)	Max. Energy Storage ( $\mu$ Joules)	Max. Switching Freq. (MHz)
PCIT40-1R0M-RC	1.0	.025	60	.50	5.0	9	1
PCIT40-1R5M-RC	1.5	.030	55	.70	5.0	12	1
PCIT40-2R2M-RC	2.2	.035	55	1.0	5.0	15	1
PCIT40-3R3M-RC	3.3	.040	50	1.5	5.0	16	1
PCIT40-4R7M-RC	4.7	.045	45	2.0	3.0	10	1
PCIT40-6R8M-RC	6.8	.050	40	4.0	2.5	14	1
PCIT40-100M-RC	10	.055	35	5.0	2.0	11	1
PCIT40-150M-RC	15	.060	25	6.0	1.8	12	1
PCIT40-220M-RC	22	.084	22	10	1.5	11	1
PCIT40-330M-RC	33	.090	18	12	1.3	13	1
PCIT40-470M-RC	47	.11	16	27	1.0	13	1
PCIT40-680M-RC	68	.15	12	40	.90	17	1
PCIT40-101M-RC	100	.29	9	50	.80	15	1
PCIT40-151M-RC	150	.36	8	80	.60	15	.5
PCIT40-221M-RC	220	.39	6	90	.50	10	.5
PCIT40-331M-RC	330	.73	5	150	.40	13	.5
PCIT40-471M-RC	470	.88	4	200	.35	13	.5
PCIT40-681M-RC	680	1.15	3	300	.30	13	.5
PCIT40-102M-RC	1000	1.45	2.5	420	.25	13	.5

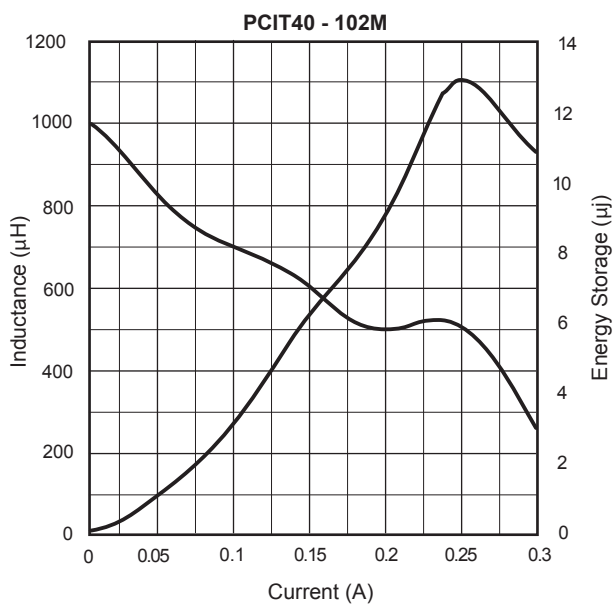
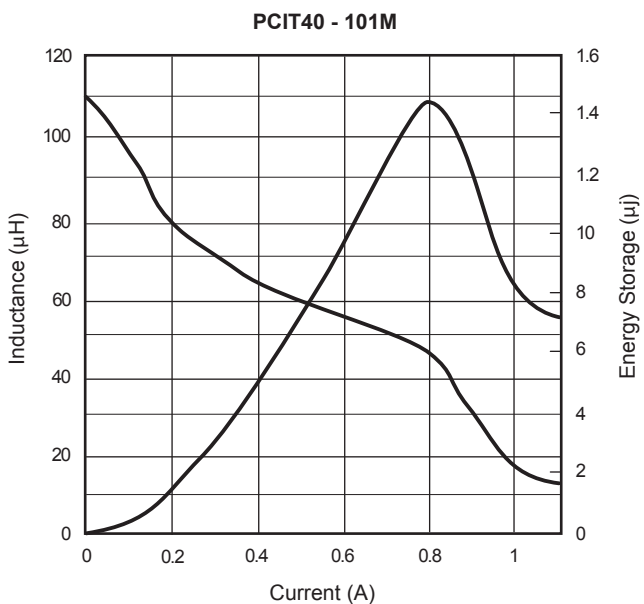
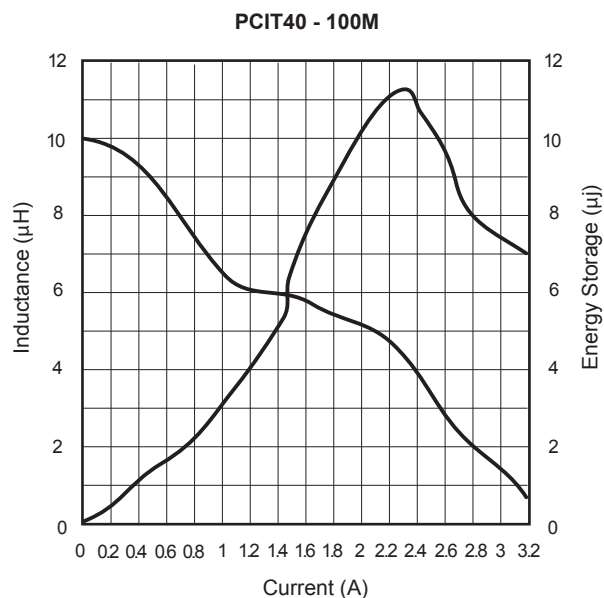
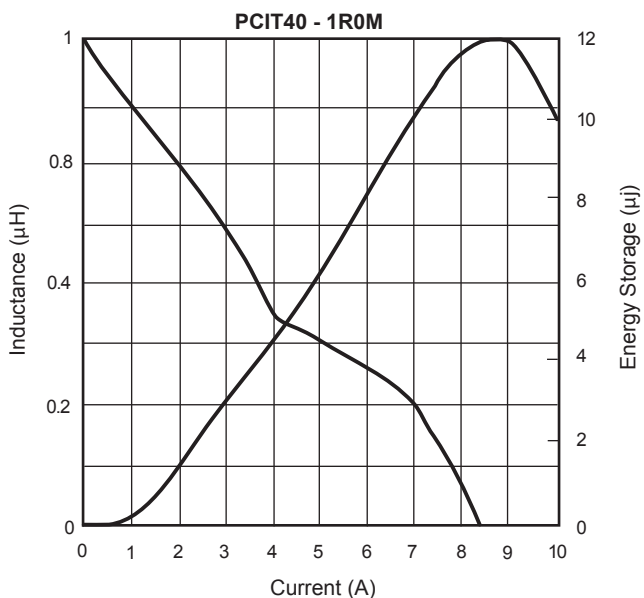
\*Measured at the rated current.

\*\*Average maximum allowable current. PCIT Series inductors are designed for current spikes as high as 2x the current rating. All specifications subject to change without notice.

# PCIT40 Power Chip Shielded Inductors



## TYPICAL INDUCTANCE AND ENERGY STORAGE VS. CURRENT



All specifications subject to change without notice.