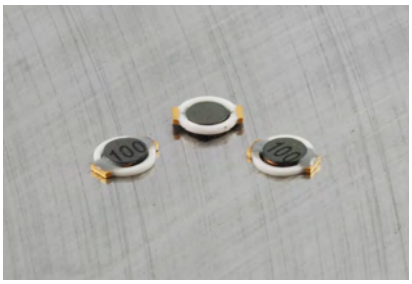
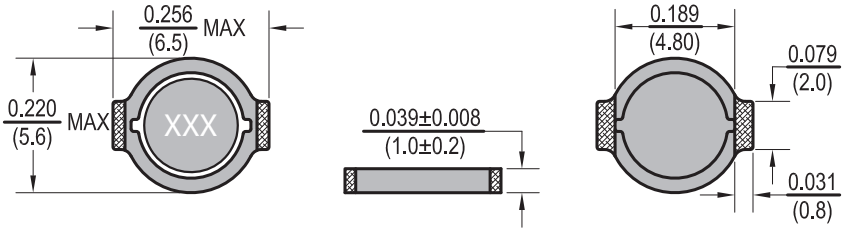
RoHS

Power Chip Low Profile Inductors PCLP05

Dimensions: Inches / (mm)





Allied Part Number	Inductance (µh)	Tolerance (%)	Test Freq. KHz, 0.1V	DCR Max. (Ω)	Isat (A)	Irms (A)
PCLP05-1R2M-RC	1.2	20	100	0.08	2.1	3.6
PCLP05-1R5M-RC	1.5	20	100	0.10	1.9	2.8
PCLP05-2R2M-RC	2.2	20	100	0.12	1.6	2.4
PCLP05-3R3M-RC	3.3	20	100	0.16	1.3	2.0
PCLP05-4R7M-RC	4.7	20	100	0.20	1.1	1.7
PCLP05-6R8M-RC	6.8	20	100	0.32	0.9	1.2
PCLP05-100M-RC	10	20	100	0.41	0.8	1.1
PCLP05-150M-RC	15	20	100	0.55	.65	0.9
PCLP05-220M-RC	22	20	100	0.85	0.5	.83
PCLP05-330M-RC	33	20	100	1.30	0.4	.62
PCLP05-470M-RC	47	20	100	1.80	.35	.52
PCLP05-680M-RC	68	20	100	2.50	.30	.35
PCLP05-101M-RC	100	20	100	3.50	.25	.27
PCLP05-151M-RC	150	20	100	5.00	.18	.24
PCLP05-221M-RC	220	20	100	7.00	.16	.23
PCLP05-331M-RC	330	20	100	15.0	.13	.13

All specifications subject to change without notice.

Features

- High Energy Storage SMD low cost design
- Low profile, 1mm nominal
- Designed for very low resistance
- Small size and high performance
- Excellent for use in step up and step down coverters
- DC-DC conversion

Electrical

Inductance Range: 1.2µh to 330µh
Tolerance: 20% over entire range
Also available in tighter tolerances
Test Frequency: (L/Q) as specified
Operating Temp: -40ºC ~ +85ºC
Isat: Current at which Inductance drops 10% of original value
Irms: ΔT= 40ºC rise typical at Irms.

Resistance to Soldering Heat

Test Method: Reflow solder the devise onto PCB using 96.5 Sn/Ag3.0/Cu0.5 Solder paste.
The solder process shall be 230ºC for 20 ± 2 sec. and 260ºC for 5 ± 2 seconds.
Inductance shall remain within 10% of inital value.

Test Equipment

(L & Q): HP4192A / HP4285A
(DCR): Chen Hwa 502BC
(IDC): HP4284A with HP42841A or CH1061 with CH301A

Physical

Packaging: 3500 pieces per 13 inch reel.
Marking: EIA Inductance Code.