

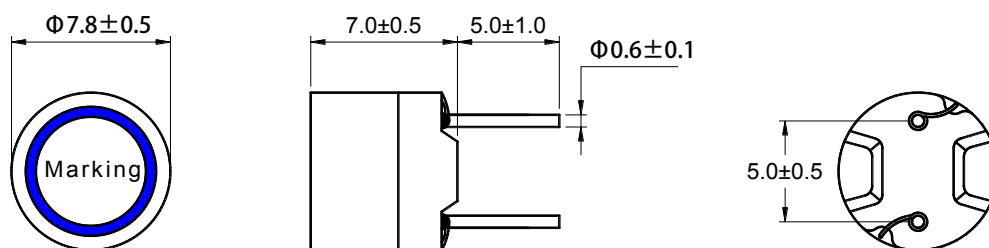
KPRD Series Through-hole Inductor Size 0807



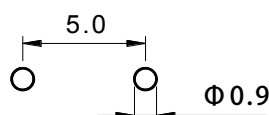
FEATURES

- Magnetically shielded construction, high reliability.
- Lead free product, RoHS compliant.
- Widely used in power supply, DC-DC converter, computer and peripherals, air-condition, displayer, home electric appliance, and etc.
- Operating temperature : -40°C ~ +125°C
(Including coil's temperature rise)

Dimensions: [mm]



Land Pattern: [mm]



Schematic:



Electrical Properties:

Part No.	Inductance (μ H) $\pm 20\%$	D.C.R. (m Ω)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
KPRD0807-100M	10.0	34.0	40.8	2.45	1.96	3.16
KPRD0807-150M	15.0	36.0	43.2	2.30	1.84	3.07
KPRD0807-220M	22.0	45.0	54.0	1.90	1.52	2.74
KPRD0807-330M	33.0	73.0	87.6	1.55	1.24	2.15
KPRD0807-470M	47.0	89.0	107	1.30	1.04	1.95
KPRD0807-680M	68.0	109	131	1.10	0.88	1.76

Part No.	Inductance (μH) $\pm 20\%$	D.C.R. ($\text{m}\Omega$)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
KPRD0807-820M	82.0	154	185	1.00	0.80	1.48
KPRD0807-101M	100	168	202	0.90	0.72	1.42
KPRD0807-151M	150	283	340	0.70	0.56	1.08
KPRD0807-221M	220	348	418	0.60	0.48	1.00
KPRD0807-331M	330	516	619	0.50	0.40	0.81
KPRD0807-471M	470	920	1,104	0.40	0.32	0.62
KPRD0807-681M	680	1,380	1,656	0.35	0.28	0.50
KPRD0807-821M	820	1,570	1,884	0.30	0.24	0.47
KPRD0807-102M	1,000	1,750	2,100	0.25	0.20	0.44

All data is tested based on 25°C ambient temperature.

Inductance measure condition at 100kHz,0.1V.

Saturation current: the value of DC current when the inductance decrease 20% of its initial value.

Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

Typical Electrical Characteristics:

