

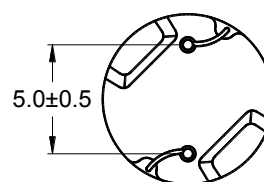
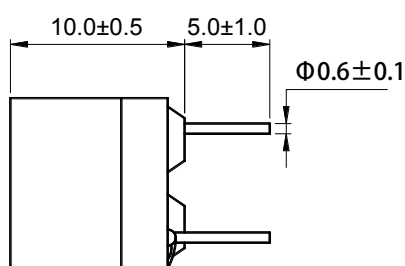
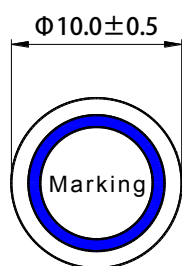
KPRD Series Through-hole Inductor Size 1010



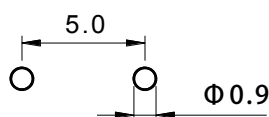
FEATURES

- 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	
KPRD1010-100M	10.0	18.2	21.8	4.50	3.60	5.12
KPRD1010-150M	15.0	22.0	26.4	3.40	2.72	4.66
KPRD1010-220M	22.0	26.9	32.3	3.00	2.40	4.21
KPRD1010-330M	33.0	41.0	49.2	2.40	1.92	3.41
KPRD1010-470M	47.0	59.0	70.8	2.10	1.68	2.85
KPRD1010-680M	68.0	79.0	94.8	1.75	1.40	2.46

Part No.	Inductance (μH) $\pm 20\%$	D.C.R. ($\text{m}\Omega$)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
KPRD1010-820M	82.0	100	120	1.60	1.28	2.19
KPRD1010-101M	100	111	133	1.45	1.16	2.07
KPRD1010-151M	150	182	218	1.20	0.96	1.62
KPRD1010-221M	220	233	280	0.95	0.76	1.43
KPRD1010-331M	330	373	448	0.80	0.64	1.13
KPRD1010-471M	470	443	532	0.70	0.56	1.04
KPRD1010-681M	680	669	803	0.60	0.48	0.85
KPRD1010-821M	820	864	1,037	0.53	0.42	0.74
KPRD1010-102M	1,000	1,000	1,200	0.45	0.36	0.69

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:

