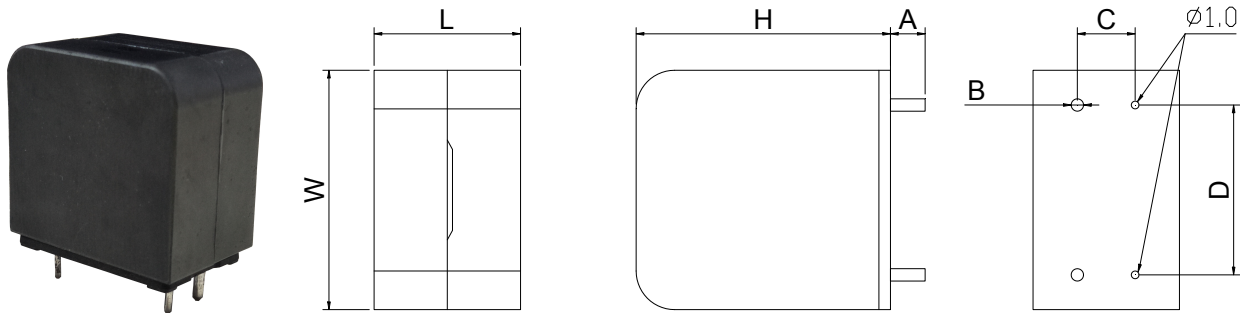


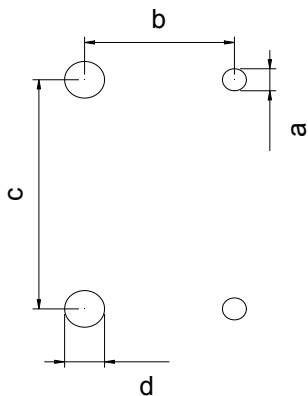
1. Dimensions (mm)



L	W	H	A	B	C	D
19.0±1.0	31.0±1.0	33.0 max.	4.5±0.5	∅1.6±0.5	7.5±0.5	22±0.5

Dimensions do not include solder on the Pins

2.Recommended Land Pattern



Symbol	Dimensions(mm)
a	1.2
b	7.5
c	22.0
d	2.0

RoHS
Compliance

3. Electrical Characteristics

Part Number	Inductance (μH) ①	Inductance tolerance	DCR (mΩ) typ.②	DCR (mΩ) max.②	Isat (A) ③	Irms typ. (A) ④
M7G31S-100M01	10	±20%	5.2	6.3	50 min.	12.5
M7G31S-120M01	12	±20%	5.2	6.3	50 min.	12.5
M7G31S-150M01	15	±20%	5.8	6.9	47 max.	12.0
M7G31S-180M01	18	±20%	5.2	6.3	34 max.	12.5
M7G31S-220M01	22	±20%	5.8	6.9	31 max.	12.0

① Inductance tested at 100kHz/0.1V,using an Agilent/HP 4192A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Isat : The DC current at which the inductance decreases by 25% of it's initial value.

④ Irms: The DC current at which $\Delta t=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).