FAUKU
高芯电子

GYHSB1890-xxx-M(N)

Power Inductance

Description

- High current,low loss of iron powder core.
- Low profile for machine placement.
- Minimize electromagnetic interference.
- Suppress common mode noise.
- Prevent EMI effect via precise impedance.

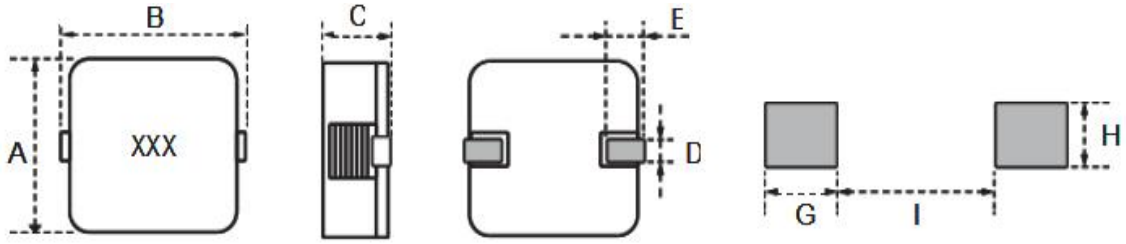


Product Identification

GYHSB	1890	xxx	M(N)
①	②	③	④

① Series name
② Dimensions
③ Inductance Value
④ Inductance Tolerance (M= ± 20%;N= ± 30%)

Dimensions-mm



Series	A	B	C	D	E	G typ	H typ	I typ
GYHSB1890	18.2±0.5	18.3±1.0	9.2Max	3.5±1.0	4.5±1.0	6	6	7.3

Electrical Characteristics

Part Number	Inductance	DC Resistance	DC Resistance	Heating Rating Current	Saturation Current
	L（uH）	DCR(mΩ)	DCR(mΩ)	A	A
	100kHz,0.1V	Typ	Max	Max	Typ
GYHSB1890-R82-M	0.82±20%	0.54	0.58	41.50	65.00
GYHSB1890-1R3-M	1.3±20%	0.94	1.02	34.50	62.00
GYHSB1890-1R9-M	1.9±20%	1.20	1.30	32.50	52.00
GYHSB1890-2R6-M	2.6±20%	1.58	1.71	31.50	50.00
GYHSB1890-3R5-M	3.5±20%	3.10	3.35	22.50	37.00
GYHSB1890-4R5-M	4.5±20%	3.40	3.67	20.50	37.00
GYHSB1890-5R6-M	5.6±20%	3.70	4.00	19.00	33.00
GYHSB1890-6R8-M	6.8±20%	4.10	4.43	18.50	27.00
GYHSB1890-100-M	10±20%	6.90	7.45	15.00	21.50

Notes:

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 40 °C to + 125 °C
3. Idc(A):DC current (A) that will cause an approximate ΔT of 50 °C
4. Isat(A):DC current (A) that will cause L0 to drop approximately30 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.