High Current Inductors - MXAL5020/5030/5050 Series

Meisongbei



Features

- High current; very low DCR
- Soft saturation makes them
- AEC-Q200 Grade 1 (-40°C to +125°C)

Package

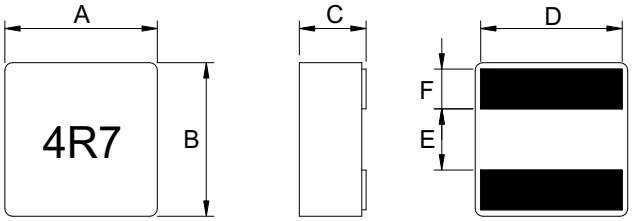
- MXAL5020 - 3000 PCS/Reel
- MXAL5030 - 2000 PCS/Reel
- MXAL5050 - 1500 PCS/Reel

General Specifications

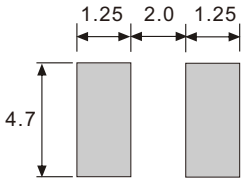
- Inductance tested at 100kHz, 0.1Vrms
- Isat: Inductance 30% drop max at DC current.
- Irms: Current that cause 40°C rise from 25°C

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Dimensions & Configurations (Unit:mm)



Recommended Layout



Type	A (±0.2)	B (±0.2)	C (Max.)	D (±0.3)	E (±0.3)	F (±0.3)
MXAL5020	5.5	5.3	2.1	4.3	2.3	1.1
MXAL5030	5.5	5.3	3.1	4.3	2.3	1.1
MXAL5050	5.5	5.3	5.1	4.3	2.3	1.1

Electrical Characteristics For MXAL5020/5030/5050 Series

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Max.	Irms (A) Typ.
MXAL5020-R16M	0.16	4.6	27	18.8
MXAL5020-R33M	0.33	7	24	14.4
MXAL5020-R56M	0.56	9.54	16	13.9
MXAL5020-R80M	0.8	11.8	13.5	13
MXAL5020-1R0M	1	13.8	12.8	10.5
MXAL5020-1R2M	1.2	16.3	12.2	9.4
MXAL5020-1R5M	1.5	18.7	11.7	8.8
MXAL5030-R16M	0.16	2.33	32	22.2
MXAL5030-R33M	0.33	3.52	26	19.2
MXAL5030-R60M	0.6	4.52	20	17.7
MXAL5030-R80M	0.8	5.65	18	13.1
MXAL5030-1R0M	1	7.6	14.3	12.2
MXAL5030-1R2M	1.2	9.7	13.5	11
MXAL5030-2R2M	2.2	14.5	9	9.7
MXAL5030-3R3M	3.3	23.1	8.7	8.1
MXAL5030-4R7M	4.7	36.3	7	5.9
MXAL5050-5R6M	5.6	24.2	7.2	7.2
MXAL5050-6R8M	6.8	28.6	6.6	6.4
MXAL5050-8R2M	8.2	32.5	6.1	6.1
MXAL5050-100M	10	43	5.4	5