# High Current Inductors - MXAL4020/4030 Series

Meisongbei




## Features

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

## Package

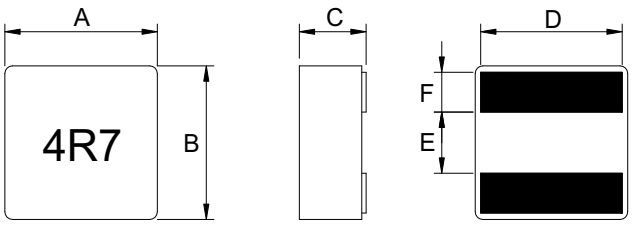
- MXAL4020 - 3000 PCS/Reel
- MXAL4030 - 2000 PCS/Reel

## General Specifications

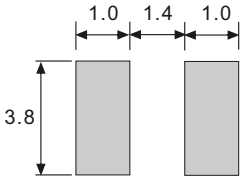
- Inductance tested at 100kHz, 0.1Vrms
- Isat: Inductance 30% drop max at DC current.
- Irms: Current that cause 40°C rise from 25°C

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

## Dimensions & Configurations (Unit:mm)




Recommended Layout




| Type | A (±0.3) | B (±0.3) | C (Max.) | D (±0.3) | E (±0.3) | F (±0.3) |
|---|---|---|---|---|---|---|
| MXAL4020 | 4.1 | 4.1 | 2.1 | 3.4 | 1.7 | 0.88 |
| MXAL4030 | 4.1 | 4.1 | 3.1 | 3.4 | 1.7 | 0.88 |

## Electrical Characteristics For MXAL4020/4030 Series

| Part Number | Inductance (µH) ±20% | DCR (mΩ) Max. | Isat (A) Max. | Irms (A) Typ. |
|---|---|---|---|---|
| MXAL4020-R10M | 0.1 | 2.42 | 33 | 18 |
| MXAL4020-R22M | 0.22 | 4.6 | 18.8 | 16.8 |
| MXAL4020-R36M | 0.36 | 6.3 | 15 | 14.5 |
| MXAL4020-R40M | 0.4 | 7.73 | 13.5 | 14 |
| MXAL4020-R47M | 0.47 | 8.58 | 13 | 12.5 |
| MXAL4020-R56M | 0.56 | 9.3 | 12.6 | 12 |
| MXAL4020-R60M | 0.6 | 9.52 | 12.3 | 11.7 |
| MXAL4020-R72M | 0.72 | 11.6 | 10.6 | 10.5 |
| MXAL4020-1R0M | 1 | 14.6 | 8.8 | 9.6 |
| MXAL4020-1R2M | 1.2 | 17.9 | 7.8 | 9 |
| MXAL4020-1R5M | 1.5 | 23.5 | 7.4 | 7.6 |
| MXAL4020-1R8M | 1.8 | 28 | 7 | 7 |
| MXAL4020-2R2M | 2.2 | 38.7 | 6 | 5.6 |
| MXAL4030-R47M | 0.47 | 7.26 | 15 | 14 |
| MXAL4030-R90M | 0.9 | 10.1 | 9 | 11.2 |
| MXAL4030-1R0M | 1 | 10.1 | 9.2 | 11 |
| MXAL4030-1R2M | 1.2 | 11.5 | 8.7 | 9.8 |
| MXAL4030-1R5M | 1.5 | 13.2 | 7 | 9 |
| MXAL4030-2R2M | 2.2 | 22.6 | 6.1 | 7.8 |
| MXAL4030-3R3M | 3.3 | 28.6 | 5.3 | 6.6 |