

Wire-wound Metal Power Inductors MCOIL™ LMDN series

for Medical Devices classified as GHTF Class C (Japan Class III)

Code in front of Series have been extracted from Part number, which describes the segment of products, such as kinds and characteristics.

REFLOW

PART NUMBER

*Operating Temp. : -40~125°C(Including self-generated heat)

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| L | M | D | N | D | 2 | 0 | 2 | 0 | K | K | T | 1 | R | 0 | M | M | |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | | | | | | | | | |

①Series

| Code (1)(2)(3)(4) | |
|----------------------|--|
| LMDN | Wire-wound Metal Power Inductor for Medical Devices classified as GHTF Class C (Japan Class III) |

(1) Product Group

| Code | |
|------|-----------|
| L | Inductors |

(2) Category

| Code | Recommended equipment | Quality Grade |
|------|--|---------------|
| M | Medical Devices classified as GHTF Class C (Japan Class III) | 2 |

②Features

| Code | Feature |
|------|--------------------------------|
| D | Bottom electrode (Ag x solder) |

③Dimensions (L x W)

| Code | Dimensions(L x W) [mm] |
|------|------------------------|
| 2020 | 2.0 x 2.0 |
| 3030 | 3.0 x 3.0 |
| 4040 | 4.0 x 4.0 |

④Dimensions (H)

| Code | Dimensions(H) [mm] |
|------|--------------------|
| KK | 1.0 |
| MK | 1.2 |
| WK | 2.0 |

(3) Type

| Code | |
|------|------------------------------|
| D | Metal Wire-wound (Drum type) |

(4) Features, Characteristics

| Code | |
|------|----------------------|
| N | Standard Power choke |

⑤Packaging

| Code | Packaging |
|------|-----------|
| T | Taping |

⑥Nominal inductance

| Code (example) | Nominal inductance[μH] |
|-------------------|------------------------|
| R47 | 0.47 |
| 1R0 | 1.0 |
| 4R7 | 4.7 |

※R=Decimal point

⑦Inductance tolerance

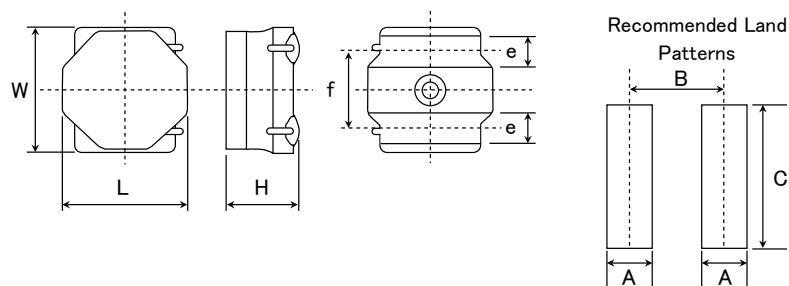
| Code | Inductance tolerance |
|------|----------------------|
| M | ±20% |
| N | ±30% |

⑧Special code

| Code | Special code |
|------|-----------------|
| F | Ferrite coating |
| M | Metal coating |

⑨Internal code

STANDARD EXTERNAL DIMENSIONS



| Type | A | B | C |
|------|------|------|-----|
| 2020 | 0.65 | 1.35 | 2.0 |
| 3030 | 0.8 | 2.2 | 2.7 |
| 4040 | 1.2 | 2.8 | 3.7 |

Unit: mm

| Type | L | W | H | e | f | Standard quantity [pcs] Taping |
|--------|---------------------------|---------------------------|------------------------|---------------------------|---------------------------|-----------------------------------|
| 2020KK | 2.0±0.15 (0.079±0.006) | 2.0±0.15 (0.079±0.006) | 1.0 max (0.039 max) | 0.50±0.2 (0.02±0.008) | 1.25±0.2 (0.049±0.008) | 2500 |
| 2020MK | 2.0±0.15 (0.079±0.006) | 2.0±0.15 (0.079±0.006) | 1.2 max (0.047 max) | 0.50±0.2 (0.02±0.008) | 1.25±0.2 (0.049±0.008) | 2500 |
| 3030KK | 3.0±0.1 (0.118±0.004) | 3.0±0.1 (0.118±0.004) | 1.0 max (0.039 max) | 0.90±0.2 (0.035±0.008) | 1.9±0.2 (0.075±0.008) | 2000 |
| 3030MK | 3.0±0.1 (0.118±0.004) | 3.0±0.1 (0.118±0.004) | 1.2 max (0.047 max) | 0.90±0.2 (0.035±0.008) | 1.9±0.2 (0.075±0.008) | 2000 |
| 4040MK | 4.0±0.2 (0.157±0.008) | 4.0±0.2 (0.157±0.008) | 1.2 max (0.047 max) | 1.1±0.2 (0.043±0.008) | 2.5±0.2 (0.098±0.008) | 1000 |
| 4040WK | 4.0±0.2 (0.157±0.008) | 4.0±0.2 (0.157±0.008) | 2.0 max (0.079 max) | 1.1±0.2 (0.043±0.008) | 2.5±0.2 (0.098±0.008) | 700 |

Unit: mm (inch)