

## MTUPI0302 Series Power Inductors - 0302 Size

Webpage



Sample kit



Buy Online



Support



Tools



### Features

- Economical
- High current capacity
- High Temperature stability
- Low profile SMD Power Inductor
- SMT type, suitable for reflow soldering
- Large terminal surface for good PCB bonding
- Operating temperature: -40 °C to +125 °C

### Product Image

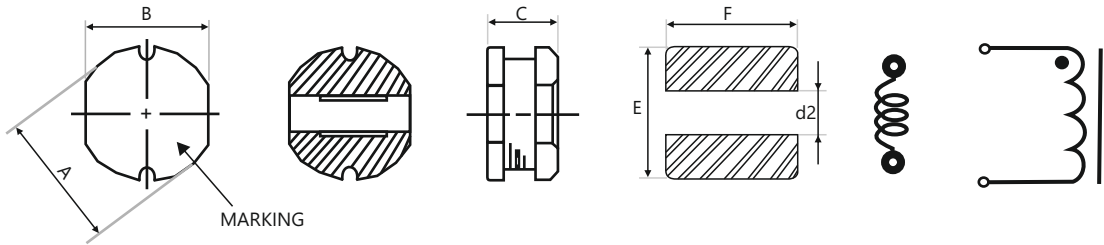


\*Displayed image is only for reference purpose, original product may vary.

### Applications

- Set Top Box
- Energy Meters
- BLDC Controllers
- Power Supplies (SMPS)
- High frequency charger
- Vehicle Tracking System
- High density power converter
- Battery Powered Equipements

### Dimensions



A (mm)	B (mm)	C (mm)	d2 (mm)	E (mm)	F (mm)
3.7 ± 0.3	3.3 ± 0.3	2.1 ± 0.3	1 ± 0.3	3.6 ± 0.3	3.5 (ref.)

### Electrical Specifications

Part Number	Inductance (µH)	Tolerance	Test Condition	DCR (Ω) max.	Current (A)	Part Number	Inductance (µH)	Tolerance	Test Condition	DCR (Ω) max.	Current (A)
MTUPI03021R0	1	± 20%	100 kHz, 0.3V	0.048	1.75	MTUPI0302220	22	± 10%	1 kHz, 0.3V	0.65	0.63
MTUPI03021R5	1.5	± 20%	100 kHz, 0.3V	0.06	1.85	MTUPI0302270	27	± 10%	1 kHz, 0.3V	0.85	0.62
MTUPI03021R8	1.8	± 20%	100 kHz, 0.3V	0.07	1.7	MTUPI0302330	33	± 10%	1 kHz, 0.3V	0.962	0.56
MTUPI03022R2	2.2	± 20%	100 kHz, 0.3V	0.072	1.68	MTUPI0302390	39	± 10%	1 kHz, 0.3V	1.05	0.51
MTUPI03022R7	2.7	± 20%	100 kHz, 0.3V	0.09	1.55	MTUPI0302470	47	± 10%	1 kHz, 0.3V	1.25	0.47
MTUPI03023R3	3.3	± 20%	100 kHz, 0.3V	0.108	1.58	MTUPI0302560	56	± 10%	1 kHz, 0.3V	1.59	0.42
MTUPI03023R9	3.9	± 20%	100 kHz, 0.3V	0.115	1.3	MTUPI0302680	68	± 10%	1 kHz, 0.3V	1.82	0.38
MTUPI03024R7	4.7	± 20%	100 kHz, 0.3V	0.172	1.5	MTUPI0302820	82	± 10%	1 kHz, 0.3V	2.44	0.34
MTUPI03025R6	5.6	± 20%	100 kHz, 0.3V	0.192	1.36	MTUPI0302101	100	± 10%	1 kHz, 0.3V	2.84	0.31
MTUPI03026R8	6.8	± 20%	100 kHz, 0.3V	0.219	1.22	MTUPI0302151	150	± 10%	1 kHz, 0.3V	2.62	0.25
MTUPI03028R2	8.2	± 20%	100 kHz, 0.3V	0.247	1.09	MTUPI0302181	180	± 10%	1 kHz, 0.3V	3.9	0.165
MTUPI0302100	10	± 10%	1 kHz, 0.3V	0.286	0.95	MTUPI0302221	220	± 10%	1 kHz, 0.3V	4.5	0.155
MTUPI0302120	12	± 10%	1 kHz, 0.3V	0.325	0.88	MTUPI0302271	270	± 10%	1 kHz, 0.3V	6	0.135
MTUPI0302180	18	± 10%	1 kHz, 0.3V	0.546	0.76	MTUPI0302331	330	± 10%	1 kHz, 0.3V	7	0.125
						MTUPI0302391	390	± 10%	1 kHz, 0.3V	7.8	0.115

TEST EQUIPMENT: CH1062A / CH1320

Notes:

Measurement ambient temperature of L, DCR and IDC : at 25°C

Isat: The saturation current value is the DC current value having inductance decrease down to 30%

Irms: DC current when at Δt= 40°C (typ.)

NOTE:

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