

### Fixed inductor :

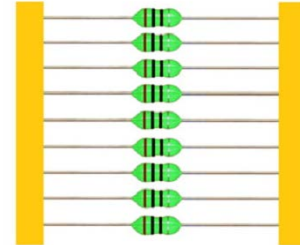
- Fixed Inductors-series (Axial lead type) high-performance ferrite cores with special structure  
Are used in resin-coated, small choke coils, which allow being inductance values up to 1000 $\mu$ H.

### Features :

- Axial leads type, small lightweight design.
- Contribute to be high Q and self-resonant frequencies Erequency
- Coating epoxy resin that ensures the humidity resistance to be long life.
- Taping type that is convenient for automatic inserted.

### Characteristics :

- Rated temperature : -20 $^{\circ}$ C to +80 $^{\circ}$ C (Including self-temperature rise 20 $^{\circ}$ C max.)
- Dielectric withstanding voltage 250Vrms
- Terminal tensile strength 1.0Kg min , Terminal bending strength 0.3Kg min.
- Terminal resistance characteristic :  $\Delta L/L \leq \pm 5\%$ ,  $\Delta Q/Q \leq \pm 20\%$
- Rated current : Based on temperature rise.

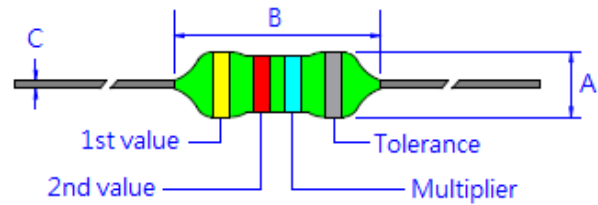


### Applications :

- Electronics products , RF , Noise filter , Switching power supply , Battery charger.

### Shapes And Dimensions : (Unit :mm)

Type	A (max.)	B	C
MTC0202	2.8	5.0	0.50
MTC0204	3.0	8.0	0.55
MTC0306	4.0	12.0	0.65
MTC0406	5.0	12.0	0.65



### Color code :

- Inductance values are indicated with color code as shown as below

Color code	1st	2nd	Multiplier	Tolerance(%)
Black	0	0	1	$\pm 20\%$ (M)
Brown	1	1	10	-
Red	2	2	100	-
Orange	3	3	1000	-
Yellow	4	4	-	-
Green	5	5	-	-
Blue	6	6	-	-
Violet	7	7	-	-
Gary	8	8	-	-
White	9	9	-	-
Gold	-	-	0.1	$\pm 5\%$ (J)
Silver	-	-	0.01	$\pm 10\%$ (K)

## MTC0202 Series

Part No.	Inductance (uH)	Tolerance (%)	Q (min)	Test frequency (MHz)	SRF (MHz) min.	DCR (ohm) max.	IDC (mA) max.
MTC0202-R10M	0.10	20	35	25.20	250	0.18	700
MTC0202-R12M	0.12	20	35	25.20	230	0.20	660
MTC0202-R15M	0.15	20	35	25.20	200	0.22	620
MTC0202-R18M	0.18	20	35	25.20	180	0.24	600
MTC0202-R22M	0.22	20	35	25.20	150	0.40	400
MTC0202-R27M	0.27	20	35	25.20	150	0.43	380
MTC0202-R33M	0.33	20	35	25.20	150	0.48	370
MTC0202-R39M	0.39	20	35	25.20	150	0.51	350
MTC0202-R47M	0.47	20	35	25.20	150	0.56	330
MTC0202-R56M	0.56	20	35	25.20	150	0.61	320
MTC0202-R68M	0.68	20	35	25.20	120	0.67	310
MTC0202-R82M	0.82	20	35	25.20	120	0.74	290
MTC0202-1R0M	1.00	20	35	25.20	120	0.80	270
MTC0202-1R2M	1.20	20	40	7.96	100	0.90	260
MTC0202-1R5M	1.50	20	40	7.96	70	1.00	250
MTC0202-1R8M	1.80	20	40	7.96	60	1.10	240
MTC0202-2R2M	2.20	20	40	7.96	45	1.20	230
MTC0202-2R7M	2.70	20	40	7.96	40	1.30	220
MTC0202-3R3M	3.30	10	40	7.96	36	1.40	210
MTC0202-3R9M	3.90	10	40	7.96	32	1.50	200
MTC0202-4R7M	4.70	10	40	7.96	30	1.70	190
MTC0202-5R6M	5.60	10	40	7.96	28	1.90	180
MTC0202-6R8M	6.80	10	40	7.96	27	2.00	175
MTC0202-8R2M	8.20	10	40	7.96	26	2.20	165
MTC0202-100K	10.0	10	40	7.96	24	2.50	160
MTC0202-120K	12.0	10	40	2.52	22	2.50	150
MTC0202-150K	15.0	10	40	2.52	19	2.80	145
MTC0202-180K	18.0	10	40	2.52	18	3.10	140
MTC0202-220K	22.0	10	40	2.52	17	3.40	100
MTC0202-270K	27.0	10	40	2.52	15	4.30	80
MTC0202-330K	33.0	10	40	2.52	14	4.70	75
MTC0202-390K	39.0	10	40	2.52	12	5.20	74
MTC0202-470K	47.0	10	40	2.52	11	5.80	70
MTC0202-560K	56.0	10	40	2.52	10	6.40	68
MTC0202-680K	68.0	10	40	2.52	9.5	7.20	64
MTC0202-820K	82.0	10	40	2.52	9.0	11.00	46
MTC0202-101K	100.0	10	40	2.52	7.0	12.00	44
MTC0202-121K	120.0	10	40	0.796	6.5	13.00	42
MTC0202-151K	150.0	10	40	0.796	5.5	16.00	39
MTC0202-181K	180.0	10	40	0.796	5.2	18.00	37
MTC0202-221K	220.0	10	40	0.796	4.7	20.00	35
MTC0202-271K	270.0	10	40	0.796	4.6	25.00	25
MTC0202-331K	330.0	10	40	0.796	4.2	30.00	25
MTC0202-391K	390.0	10	40	0.796	3.8	34.00	25
MTC0202-471K	470.0	10	40	0.796	3.5	38.00	24

\*\*Design as customer's requested specifications.\*\*

Quantity / Reel : 5000pcs  
 Quantity / Carton : 25000pcs  
 Carton size : 380 x 370 x 420mm

## MTC0204 Series

Part No.	Inductance (uH)	Tolerance (%)	Q (min)	Test frequency (MHz)	SRF (MHz) min.	DCR (ohm) max.	IDC (mA) max.
MTC0204-R10K	0.1	10	40	25.20	470	0.085	700
MTC0204-R22M	0.22	20	40	25.20	380	0.12	700
MTC0204-R27M	0.27	20	40	25.20	360	0.15	680
MTC0204-R33M	0.33	20	40	25.20	350	0.16	680
MTC0204-R39M	0.36	20	40	25.20	320	0.18	680
MTC0204-R47M	0.47	20	40	25.20	300	0.26	650
MTC0204-R56M	0.56	20	40	25.20	280	0.38	500
MTC0204-R68M	0.68	20	40	25.20	250	0.42	500
MTC0204-R82M	0.82	20	40	25.20	200	0.55	450
MTC0204-1R0K	1.00	10	40	7.96	180	0.12	700
MTC0204-1R2K	1.20	10	40	7.96	165	0.18	700
MTC0204-1R5K	1.50	10	40	7.96	150	0.20	700
MTC0204-1R8K	1.80	10	50	7.96	125	0.23	655
MTC0204-2R2K	2.20	10	50	7.96	110	0.25	630
MTC0204-2R7K	2.70	10	50	7.96	95	0.28	595
MTC0204-3R3K	3.30	10	50	7.96	70	0.30	575
MTC0204-3R9K	3.90	10	50	7.96	65	0.32	555
MTC0204-4R7K	4.70	10	50	7.96	50	0.35	530
MTC0204-5R6K	5.60	10	50	7.96	40	0.40	500
MTC0204-6R8K	6.80	10	50	7.96	30	0.45	470
MTC0204-8R2K	8.20	10	50	7.96	28	0.56	425
MTC0204-100K	10.0	10	50	7.96	22	0.75	370
MTC0204-120K	12.0	10	50	2.52	20	0.80	350
MTC0204-150K	15.0	10	50	2.52	16	0.93	335
MTC0204-180K	18.0	10	50	2.52	15	1.00	315
MTC0204-220K	22.0	10	50	2.52	13	1.20	285
MTC0204-270K	27.0	10	50	2.52	11	1.80	270
MTC0204-330K	33.0	10	50	2.52	10	2.10	255
MTC0204-390K	39.0	10	50	2.52	9.5	2.30	240
MTC0204-470K	47.0	10	50	2.52	8.5	2.60	205
MTC0204-560K	56.0	10	50	2.52	7.5	2.90	195
MTC0204-680K	68.0	10	50	2.52	6.5	3.30	185
MTC0204-820K	82.0	10	50	2.52	6.0	3.80	175
MTC0204-101K	100.0	10	50	2.52	5.5	4.20	165
MTC0204-121K	120.0	10	60	0.796	5.4	4.70	160
MTC0204-151K	150.0	10	60	0.796	4.75	5.40	150
MTC0204-181K	180.0	10	60	0.796	4.35	6.00	140
MTC0204-221K	220.0	10	60	0.796	4.0	7.00	130
MTC0204-271K	270.0	10	60	0.796	3.7	7.70	120
MTC0204-331K	330.0	10	60	0.796	3.4	11.1	100
MTC0204-391K	390.0	10	60	0.796	2.8	12.6	95
MTC0204-471K	470.0	10	60	0.796	2.56	14.0	90
MTC0204-561K	560.0	10	60	0.796	2.35	15.5	85
MTC0204-681K	680.0	10	60	0.796	2.0	25.3	75
MTC0204-821K	820.0	10	60	0.796	1.5	27.5	65
MTC0204-102K	1000.0	10	50	0.796	1.2	31.4	60

\*\*Design as customer's requested specifications.\*\*

Quantity / Reel : 5000pcs

Quantity / Carton : 25000pcs

Carton size : 380 x 370 x 420mm

## MTC0306 Series

Part No.	Inductance (uH)	Tolerance (%)	Q (min)	Test frequency (MHz)	SRF (MHz) min.	DCR (ohm) max.	IDC (mA) max.
MTC0306-R22M	0.22	20	25	25.2	380	0.21	880
MTC0306-R27M	0.27	20	25	25.2	340	0.24	800
MTC0306-R33M	0.33	20	25	25.2	300	0.28	750
MTC0306-R39M	0.39	20	25	25.2	280	0.32	680
MTC0306-R47M	0.47	20	25	25.2	250	0.36	650
MTC0306-R56M	0.56	20	25	25.2	230	0.41	600
MTC0306-R68M	0.68	20	25	25.2	210	0.47	550
MTC0306-R82M	0.82	20	45	25.2	172	0.24	980
MTC0306-1R0K	1.0	10	45	25.2	157	0.24	920
MTC0306-1R2K	1.2	10	50	7.96	144	0.27	880
MTC0306-1R5K	1.5	10	50	7.96	131	0.3	830
MTC0306-1R8K	1.8	10	55	7.96	121	0.32	790
MTC0306-2R2K	2.2	10	55	7.96	110	0.35	750
MTC0306-2R7K	2.7	10	60	7.96	100	0.35	720
MTC0306-3R3K	3.3	10	65	7.96	94	0.35	670
MTC0306-3R9K	3.9	10	65	7.96	86	0.37	640
MTC0306-4R7K	4.7	10	70	7.96	80	0.39	620
MTC0306-5R6K	5.6	10	70	7.96	74	0.43	590
MTC0306-6R8K	6.8	10	75	7.96	58	0.48	550
MTC0306-8R2K	8.2	10	80	7.96	53	0.52	530
MTC0306-100K	10	10	80	7.96	45	0.58	500
MTC0306-120K	12	10	75	2.52	30	0.63	480
MTC0306-150K	15	10	70	2.52	20	0.72	460
MTC0306-180K	18	10	65	2.52	14	0.77	430
MTC0306-220K	22	10	50	2.52	7.9	0.84	410
MTC0306-270K	27	10	55	2.52	7.6	0.94	390
MTC0306-330K	33	10	55	2.52	6.3	1.03	370
MTC0306-390K	39	10	50	2.52	6.3	1.12	350
MTC0306-470K	47	10	45	2.52	6.3	1.22	340
MTC0306-560K	56	10	40	2.52	6.2	1.34	320
MTC0306-680K	68	10	40	2.52	5.7	1.47	305
MTC0306-820K	82	10	35	2.52	5.3	1.62	290
MTC0306-101K	100	10	30	2.52	4.8	1.80	275
MTC0306-121K	120	10	70	0.796	3.8	3.70	185
MTC0306-151K	150	10	70	0.796	3.5	4.20	175
MTC0306-181K	180	10	70	0.796	3.3	4.60	165
MTC0306-221K	220	10	70	0.796	3.0	5.10	155
MTC0306-271K	270	10	65	0.796	2.8	6.00	145
MTC0306-331K	330	10	65	0.796	2.6	6.50	137
MTC0306-391K	390	10	65	0.796	2.4	7.50	133
MTC0306-471K	470	10	60	0.796	2.25	8.50	126
MTC0306-561K	560	10	60	0.796	2.1	9.50	120
MTC0306-681K	680	10	55	0.796	1.95	12.0	113
MTC0306-821K	820	10	55	0.796	1.85	14.0	110
MTC0306-102K	1000	10	50	0.796	1.4	20.0	100
MTC0306-472K	4700	10	30	0.252	0.72	88.0	50

\*\*Design as customer's requested specifications.\*\*

Quantity / Reel : 5000pcs

Quantity / Carton : 25000pcs

Carton size : 380 x 370 x 420mm

## MTC0406 Series

Part No.	Inductance (mH)	Tolerance (%)	Q (min)	Test frequency (KHz)	SRF (MHz) min.	DCR (ohm) max.	IDC (mA) max.
MTC0406-122K	1.2	10	80	252	1.30	9	110
MTC0406-152K	1.5	10	80	252	1.20	10	100
MTC0406-182K	1.8	10	80	252	1.20	11	90
MTC0406-222K	2.2	10	80	252	1.10	14	80
MTC0406-272K	2.7	10	80	252	0.85	18	75
MTC0406-332K	3.3	10	80	252	0.74	22	65
MTC0406-392K	3.9	10	80	252	0.70	26	60
MTC0406-472K	4.7	10	80	252	0.66	32	55
MTC0406-562K	5.6	10	70	252	0.64	34	50
MTC0406-682K	6.8	10	70	252	0.58	45	45
MTC0406-822K	8.2	10	50	252	0.50	60	40
MTC0406-103K	10	10	50	79.6	0.48	70	38
MTC0406-123K	12	10	50	79.6	0.46	82	35
MTC0406-153K	15	10	50	79.6	0.40	89	32
MTC0406-183K	18	10	40	79.6	0.37	140	28
MTC0406-223K	22	10	40	79.6	0.33	170	25
MTC0406-253K	25	10	40	79.6	0.28	185	24
MTC0406-273K	27	10	40	79.6	0.26	210	23
MTC0406-303K	30	10	40	79.6	0.25	240	22
MTC0406-333K	33	10	40	79.6	0.24	250	20

\*\*Design as customer's requested specifications.\*\*

Quantity / Reel : 3000pcs

Quantity / Carton : 15000pcs

Carton size : 380 x 370 x 420mm