

## MT SERIES -(MT31/32/42/43/52/53/54/73/75/104/105)

### 1 . FEATURES(特性):

- ◆ Various high power inductors are superior to be high saturation for surface mounting -具有高功率，高饱和度，低阻抗，小型化的特点
- ◆ Put the electrode with ferrite core directly, a small surface area allow a high mounting density -直接电极设计，降低零件高度



### 2 . APPLICATIONS(应用):

- ◆ MP3, Mpeg4, VTR, LCD TV, communication equipments, DC/DC converters, etc.. -MP3, Mpeg4, 录影机, 液晶电视, 通信设备, 直流转换器

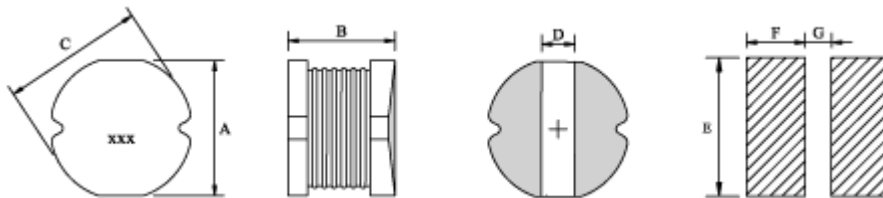
### 3 . SPECIFICATIONS(说明):

- ◆ Operating Temperature: -30 to +80 -工作温度: -30 - +80
- ◆ Operating Frequency: Up to 1MHz -工作频率: 达到 1MHz
- ◆ Inductance Drop=10% typ. at IDC -电感下跌 10%加电流时
- ◆ Electrical Specifications at 20 -电气特性是在 20 条件下

### 5 . ORDERING CODE(编号识别):

MT	54	-	330	K
(1)	(2)	(3)	(4)	
(1)	Part type -产品类型			
(2)	Dimensions -尺寸			
(3)	Inductance -电感量			
(4)	Inductance tolerance -电感量公差			
J±5%, K±10%, L±15%, M±20%				

### 4 . SHAPE AND DIMENSIONS(外形尺寸):



Unit: mm

TYPE 类型	L Range (μH) 电感范围	A ± 0.3	B ± 0.3	C ± 0.3	D	E	F	G
MT31	3.3 --- 390	3.0	1.6	3.5	1.2	3.5	1.60	0.8
MT32	1.0 --- 390	3.0	2.1	3.5	1.2	3.5	1.60	0.8
MT42	2.2 --- 470	4.0	2.0	4.5	1.5	4.5	2.10	0.8
MT43	1.0 --- 1000	4.0	3.2	4.5	1.5	4.5	2.10	0.8
MT52	1.2 --- 1000	5.2	2.5	5.8	2.0	5.5	2.25	1.5
MT53	1.0 --- 1000	5.2	3.0	5.8	2.0	5.5	2.25	1.5
MT54	2.2 --- 1000	5.2	4.5	5.8	2.0	5.5	2.25	1.5
MT73	10 --- 1000	7.0	3.5	7.8	2.5	7.5	3.05	1.9
MT75	1.2 --- 1000	7.0	5.0	7.8	2.5	7.5	3.05	1.9
MT104	10 --- 1000	9.0	4.0	10.0	2.9	9.5	3.65	2.5
MT105	1.8 --- 1000	9.0	5.4	10.0	2.9	9.5	3.65	2.5

Design a Customer's Requested Specifications (可根据客户具体要求来设计)

# SMD POWER INDUCTORS

## 6 . ELECTRICAL CHARACTERISTICS(电气特性):

MT54 Series				
Part Number	Inductance ( $\mu$ H)	Test Freq. (MHz)	DCR ( $\Omega$ ) (max)	IDC (A) (max)
型号	电感值 (L)	测试频率	直流电阻	额定电流
MT54 - 2R2M	2.2	7.96	0.024	3.84
MT54 - 2R7M	2.7	7.96	0.026	3.44
MT54 - 3R3M	3.3	7.96	0.029	3.20
MT54 - 3R9M	3.9	7.96	0.035	3.00
MT54 - 4R4M	4.4	7.96	0.039	2.80
MT54 - 5R0M	5.0	7.96	0.044	2.60
MT54 - 5R6M	5.6	7.96	0.050	2.48
MT54 - 6R4M	6.4	7.96	0.052	2.20
MT54 - 7R6M	7.6	7.96	0.063	2.08
MT54 - 8R2M	8.2	7.96	0.068	1.84
MT54 - 100K	10	2.52	0.10	1.44
MT54 - 120K	12	2.52	0.12	1.40
MT54 - 150K	15	2.52	0.14	1.30
MT54 - 180K	18	2.52	0.15	1.23
MT54 - 220K	22	2.52	0.18	1.11
MT54 - 270K	27	2.52	0.20	0.97
MT54 - 330K	33	2.52	0.23	0.88
MT54 - 390K	39	2.52	0.32	0.80
MT54 - 470K	47	2.52	0.37	0.72
MT54 - 560K	56	2.52	0.42	0.68
MT54 - 680K	68	2.52	0.46	0.61
MT54 - 820K	82	2.52	0.60	0.58
MT54 - 101K	100	1.0K	0.70	0.52
MT54 - 121K	120	1.0K	0.93	0.48
MT54 - 151K	150	1.0K	1.10	0.40
MT54 - 181K	180	1.0K	1.38	0.38
MT54 - 221K	220	1.0K	1.57	0.35
MT54 - 271K	270	1.0K	1.65	0.32
MT54 - 331K	330	1.0K	1.70	0.28
MT54 - 391K	390	1.0K	1.80	0.26
MT54 - 471K	470	1.0K	2.30	0.23
MT54 - 561K	560	1.0K	2.50	0.20
MT54 - 681K	680	1.0K	3.00	0.19
MT54 - 821K	820	1.0K	4.50	0.16
MT54 - 102K	1000	1.0K	4.80	0.14