

# SMD POWER INDUCTORS

## 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

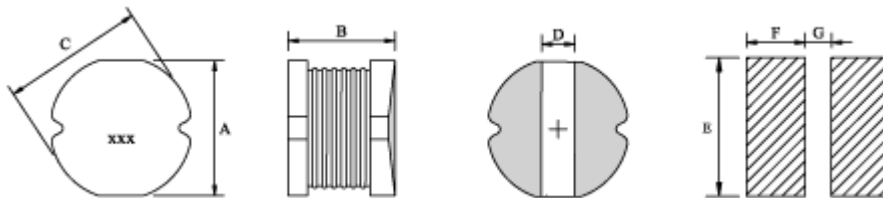
### 3 . SPECIFICATIONS(说明):

- ◆ 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)

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

MT31 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
MT31 - 3R3M	3.3	7.96	0.26	1.00
MT31 - 3R9M	3.9	7.96	0.36	0.90
MT31 - 4R7M	4.7	7.96	0.40	0.80
MT31 - 5R6M	5.6	7.96	0.45	0.75
MT31 - 6R8M	6.8	7.96	0.50	0.70
MT31 - 8R2M	8.2	7.96	0.65	0.65
MT31 - 100K	10	0.1	0.75	0.60
MT31 - 120K	12	0.1	0.85	0.55
MT31 - 150K	15	0.1	1.20	0.50
MT31 - 180K	18	0.1	1.30	0.45
MT31 - 220K	22	0.1	1.50	0.40
MT31 - 270K	27	0.1	2.30	0.35
MT31 - 330K	33	0.1	2.80	0.30
MT31 - 390K	39	0.1	3.60	0.28
MT31 - 470K	47	0.1	4.00	0.25
MT31 - 560K	56	0.1	4.50	0.20
MT31 - 680K	68	0.1	5.00	0.18
MT31 - 820K	82	0.1	6.50	0.16
MT31 - 101K	100	0.1	7.40	0.15
MT31 - 221K	220	0.1	13.5	0.13
MT31 - 331K	330	0.1	21.4	0.11
MT31 - 391K	390	0.1	25.4	0.10