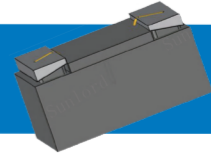


绕线片式功率电感—MWPU 系列

Wire Wound Chip Power Inductor—MWPU Series



工作温度
Operating Temp

◆ $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (Including self-heating)

特征
Features

- ◆ 小尺寸, 可表面贴装
- ◆ 铁氧体 / 合金材料具有大电感量
- ◆ 全磁屏蔽
- ◆ Small chip suitable for surface mounting
- ◆ Large inductance with ferrite/alloy material
- ◆ Magnetic shielded

用途
Applications

- ◆ 手机、TWS 耳机、智能手表等便携式设备
- ◆ Mobile phones, TWS headsets, smart watches and other portable devices

产品型号

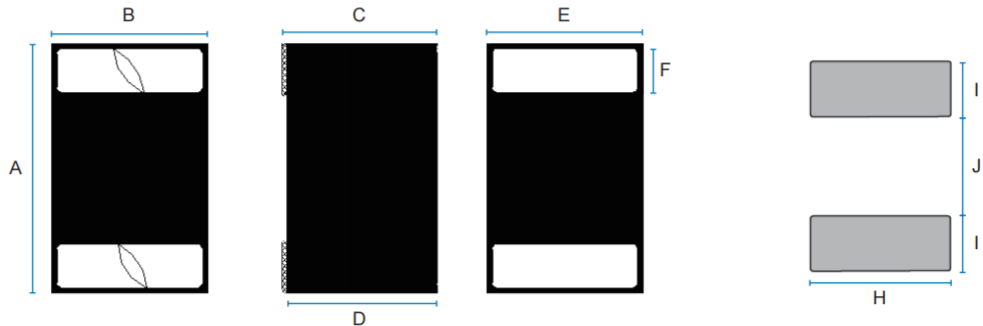
Product Identification

1	2	3	4	5	6	7
MWPU	1005	A	1R0	M	T	□□□

1	2	3
分类 Type MWPU 绕线片式功率电感 Wire Wound Chip Power Inductor	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm) 1005 1.1×0.6 1608 1.65×1.0/1.65×0.9	材料代号 Material Code F Ferrite A Alloy
4	5	7
公称感量 Nominal Inductance Example Nominal Value 1R0 1.0μH 4R7 4.7μH 100 10μH 220 22μH	电感公差 Inductance Tolerance M ±20% 包装 Packing T 编带 Tape & Reel	设计代码 Design Code □□□ Design Code *Standard product is blank

外观尺寸

Shape and Dimensions



Unit: mm									
Series	A	B	C	D Typ.	E Ref.	F Ref.	H Ref.	I Ref.	J Ref.
MWPU1005A	1.10±0.10	0.60±0.10	0.60±0.10	0.45	0.50	0.20	0.60	0.35	0.50
MWPU1608F	1.65±0.15	1.00±0.15	1.00±0.15	0.85	0.80	0.30	1.00	0.50	0.83
MWPU1608A	1.65±0.15	0.90±0.15	0.90±0.15	0.80	0.85	0.30	1.00	0.50	0.83

规格特性 Specifications

MWPU1005A TYPE

型号 Part Number	电感量 Inductance	公差 Tolerance	测试频率 L Test Freq.	自谐振频率 Min. Self-resonant Frequency	直流电阻 Max. DC Resistance	温升电流 Max. Heat Rating Current	饱和电流 Typ. Saturation Current
单位 Units	μH	-	MHz	MHz	Ω	mA	mA
符号 Symbol	L	-	Freq.	S.R.F	DCR	Ir	Isat
MWPU1005A1R0MT	1.0	±20%	1.0	120	1.0	380	850
MWPU1005A2R2MT	2.2	±20%	1.0	90	1.5	330	650
MWPU1005A4R7MT	4.7	±20%	1.0	45	4.0	185	400
MWPU1005A100MT	10	±20%	1.0	30	7.5	135	300
MWPU1005A150MT	15	±20%	1.0	20	10.0	120	250

MWPU1608F TYPE

型号 Part Number	电感量 Inductance	公差 Tolerance	测试频率 L Test Freq.	自谐振频率 Min. Self-resonant Frequency	直流电阻 Max. DC Resistance	温升电流 Max. Heat Rating Current	饱和电流 Typ. Saturation Current
单位 Units	μH	-	MHz	MHz	Ω	mA	mA
符号 Symbol	L	-	Freq.	S.R.F	DCR	Ir	Isat
MWPU1608F1R0MT	1.0	±20%	1.0	170	0.25	880	800
MWPU1608F1R5MT	1.5	±20%	1.0	125	0.28	850	730
MWPU1608F2R2MT	2.2	±20%	1.0	85	0.50	590	560
MWPU1608F4R7MT	4.7	±20%	1.0	46	0.75	490	410
MWPU1608F6R8MT	6.8	±20%	1.0	38	0.90	440	360
MWPU1608F100MT	10	±20%	1.0	30	1.20	400	290
MWPU1608F150MT	15	±20%	1.0	20	2.00	280	240
MWPU1608F220MT	22	±20%	1.0	20	3.00	220	190

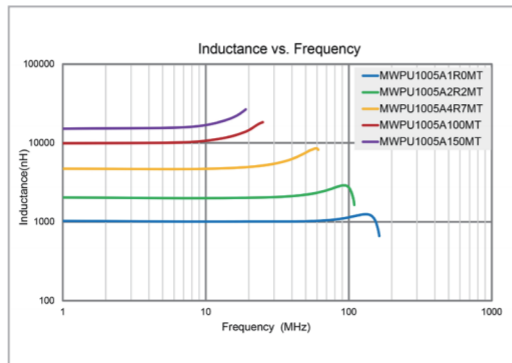
MWPU1608A TYPE

型号 Part Number	电感量 Inductance	公差 Tolerance	测试频率 L Test Freq.	自谐振频率 Min. Self-resonant Frequency	直流电阻 Max. DC Resistance	温升电流 Max. Heat Rating Current	饱和电流 Typ. Saturation Current
单位 Units	μH	-	MHz	MHz	Ω	mA	mA
符号 Symbol	L	-	Freq.	S.R.F	DCR	Ir	Isat
MWPU1608AR24MT	0.24	±20%	1.0	360	0.06	1900	5700
MWPU1608AR47MT	0.47	±20%	1.0	240	0.17	1300	3600
MWPU1608A1R0MT	1.0	±20%	1.0	110	0.22	1100	2800
MWPU1608A2R2MT	2.2	±20%	1.0	51	0.54	700	1700
MWPU1608A4R7MT	4.7	±20%	1.0	36	1.40	420	1150
MWPU1608A100MT	10	±20%	1.0	18	2.40	320	800

电气特性 Typical Electrical Characteristics

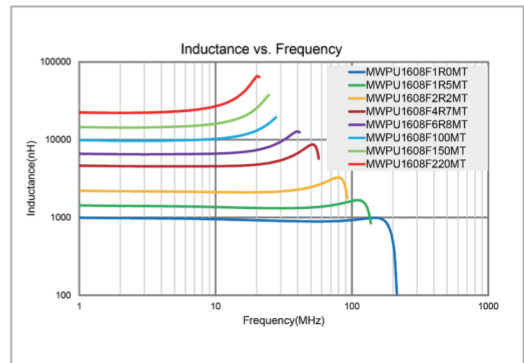
MWPU1005A TYPE

Inductance vs. Frequency Characteristics



MWPU1608F TYPE

Inductance vs. Frequency Characteristics



电气特性

Typical
Electrical
Characteristics

MWPU1608A TYPE Inductance vs. Frequency Characteristics

