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■ 特性 Features

- 本产品电极引脚表面采用无铅镀层。
Lead-free materials is used for the plating on the terminals.
- 产品使用的金属引脚电极，具有可靠的连接性能。
The product uses metal terminals, which realize excellent connection reliability.
- 具有很高的抗热抗湿性、抗机械振动和挤压，适用于表面贴装。
High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- 对于无铅化回流焊接条件，具有高度的耐热性。
The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

■ 用途 Application

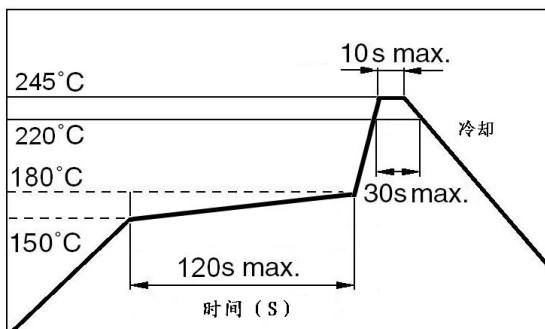
- 可用于计算机、电源、通讯设备、仪器仪表、电视音响等领域的电子电路中。
EM series high reliable wire wound chip inductors for communication, equipment, instrument, video & audio have been developen in response to the trend toward higher density mounting of parts in electric circuits.

■ 使用温度 Operating temperature

温度范围 Range $-25 \sim +85^{\circ}\text{C}$

■ 推荐的回流焊接条件

Recommended soldering conditions reflow soldering



■ 产品的型号及尺寸

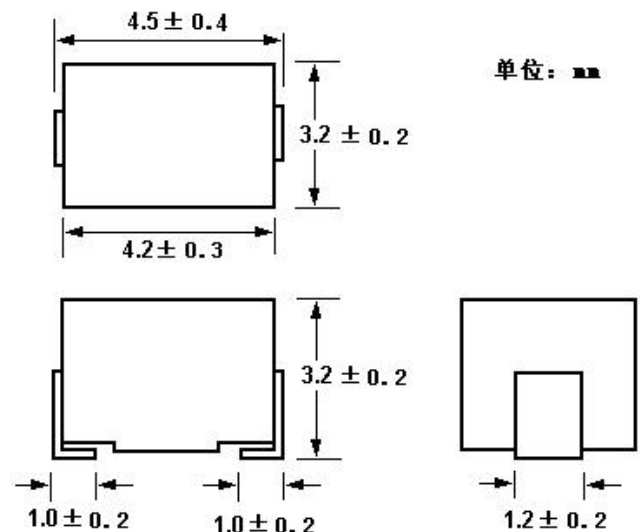
Type Designation & Outer dimensions

(1) 产品系列型号 Type Designation

EM 45 T- 2R2 M
(1) (2) (3) (4) (5)

(2) 外形尺寸 Outer dimensions L × W × T

45 (1812) 公制 $4.5 \times 3.2 \times 3.2\text{mm}$
英制 $0.180 \times 0.125\text{ inch}$



(3) 包装类型 Packing style

T 编带 (卷轴)

(4) 电感值 Inductance value

1R0	$1\mu\text{H}$
330	$33\mu\text{H}$
331	$330\mu\text{H}$

(5) 电感公差 Inductance tolerance

K	$\pm 10\%$
M	$\pm 20\%$

■ 包装类型与数量 Packing style and Quantity

包装类型	编带
数量	500 支/盘

■ 锡膏与清洗 Soldering paste and Cleaning

- 推荐使用松香锡膏。 Recommended soldering paste is blended with colophony.
- 清洗条件：选择环保的清洗剂，应避免使用强酸和强碱，时间不超过2分钟。
Cleaning: Avoid strong acid and alkali, 2 minutes Max.

■ 电气特性 Electrical characteristics

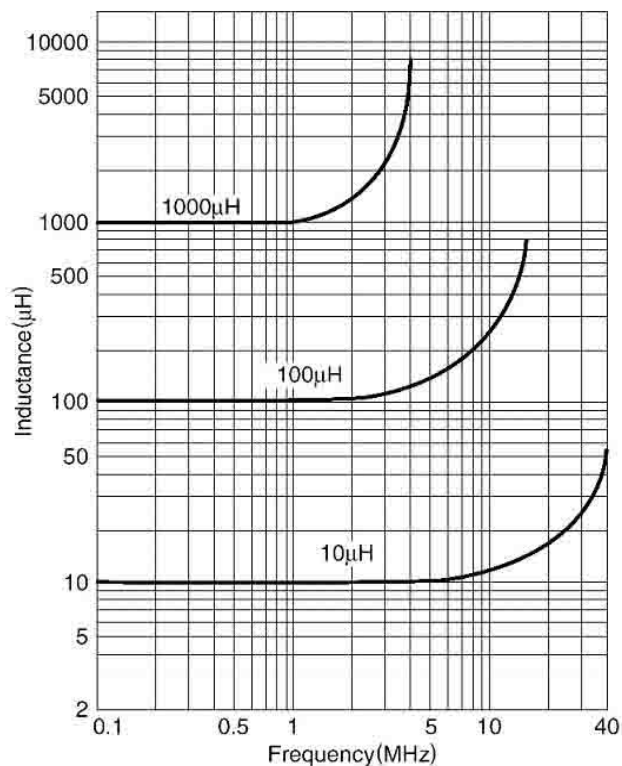
电感值 Inductance (μH)	电感允差 Inductance tolerance	Q 值 min.	测试频率 Test frequency L, Q (MHz)	自谐频率 Self-resonant frequency (MHz)min.	直流电阻 DC resistance (Ω) max.	额定电流 Rated current. (mA)max.	产品规格型号 Part No.
0.10	±10%,±20%	35	25.2	300	0.18	800	EM453232T-R10X
0.12	±10%,±20%	35	25.2	280	0.20	770	EM453232T-R12X
0.15	±10%,±20%	35	25.2	250	0.22	730	EM453232T-R15X
0.18	±10%,±20%	35	25.2	220	0.24	700	EM453232T-R18X
0.22	±10%,±20%	40	25.2	200	0.25	665	EM453232T-R22X
0.27	±10%,±20%	40	25.2	180	0.26	635	EM453232T-R27X
0.33	±10%,±20%	40	25.2	165	0.28	605	EM453232T-R33X
0.39	±10%,±20%	40	25.2	150	0.30	575	EM453232T-R39X
0.47	±10%,±20%	40	25.2	145	0.32	545	EM453232T-R47X
0.56	±10%,±20%	40	25.2	140	0.36	520	EM453232T-R56X
0.68	±10%,±20%	40	25.2	135	0.40	500	EM453232T-R68X
0.82	±10%,±20%	40	25.2	130	0.45	475	EM453232T-R82X
1.0	±10%,±20%	50	7.96	100	0.5	450	EM453232T-1R0X
1.2	±10%,±20%	50	7.96	80	0.55	430	EM453232T-1R2X
1.5	±10%,±20%	50	7.96	70	0.6	410	EM453232T-1R5X
1.8	±10%,±20%	50	7.96	60	0.65	390	EM453232T-1R8X
2.2	±10%,±20%	50	7.96	55	0.7	380	EM453232T-2R2X
2.7	±10%,±20%	50	7.96	50	0.75	370	EM453232T-2R7X
3.3	±10%,±20%	50	7.96	45	0.8	355	EM453232T-3R3X
3.9	±10%,±20%	50	7.96	40	0.9	330	EM453232T-3R9X
4.7	±10%,±20%	50	7.96	35	1	315	EM453232T-4R7X
5.6	±10%,±20%	50	7.96	33	1.1	300	EM453232T-5R6X
6.8	±10%,±20%	50	7.96	27	1.2	285	EM453232T-6R8X
8.2	±5%,±10%	50	7.96	25	1.4	270	EM453232T-8R2X
10	±5%,±10%	50	2.52	20	1.6	250	EM453232T-100X
12	±5%,±10%	50	2.52	18	2	225	EM453232T-120X
15	±5%,±10%	50	2.52	17	2.5	200	EM453232T-150X
18	±5%,±10%	50	2.52	15	2.8	190	EM453232T-180X
22	±5%,±10%	50	2.52	13	3.2	180	EM453232T-220X
27	±5%,±10%	50	2.52	12	3.6	170	EM453232T-270X
33	±5%,±10%	50	2.52	11	4	160	EM453232T-330X
39	±5%,±10%	50	2.52	10	4.5	150	EM453232T-390X
47	±5%,±10%	50	2.52	10	5	140	EM453232T-470X
56	±5%,±10%	50	2.52	9	5.5	135	EM453232T-560X
68	±5%,±10%	50	2.52	9	6	130	EM453232T-680X
82	±5%,±10%	50	2.52	8	7	120	EM453232T-820X
100	±5%,±10%	40	0.796	8	8	110	EM453232T-101X
120	±5%,±10%	40	0.796	6	8	110	EM453232T-121X
150	±5%,±10%	40	0.796	5	9	105	EM453232T-151X
180	±5%,±10%	40	0.796	5	9.5	102	EM453232T-181X
220	±5%,±10%	40	0.796	4	10	100	EM453232T-221X
270	±5%,±10%	40	0.796	4	12	92	EM453232T-271X
330	±5%,±10%	40	0.796	3.5	14	85	EM453232T-331X
390	±5%,±10%	40	0.796	3	18	80	EM453232T-391X
470	±5%,±10%	40	0.796	3	26	62	EM453232T-471X
560	±5%,±10%	30	0.796	3	30	50	EM453232T-561X
680	±5%,±10%	30	0.796	3	30	50	EM453232T-681X
820	±5%,±10%	30	0.796	2.5	35	30	EM453232T-821X
1000	±5%,±10%	20	0.252	2.5	40	30	EM453232T-102X

L, Q 测试设备：HP4285A +16034E, 或 同等设备。 Test equipment L, Q: HP4285A +16034E, or equivalent.

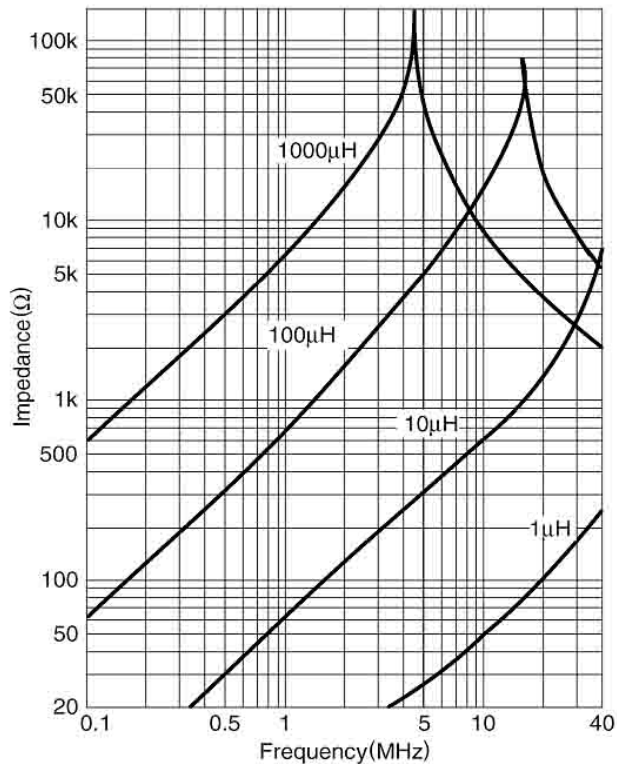
- 自谐频率：HP8753C 网络分析仪。SRF: HP8753C NETWORK ANALYZER, or equivalent.
- 直流电阻：AX-111A 数字毫欧表，或同等设备。DC resistance: AX-111A DIGITAL MILLIOHM METER, or equivalent.

■ 特性图 Characteristics

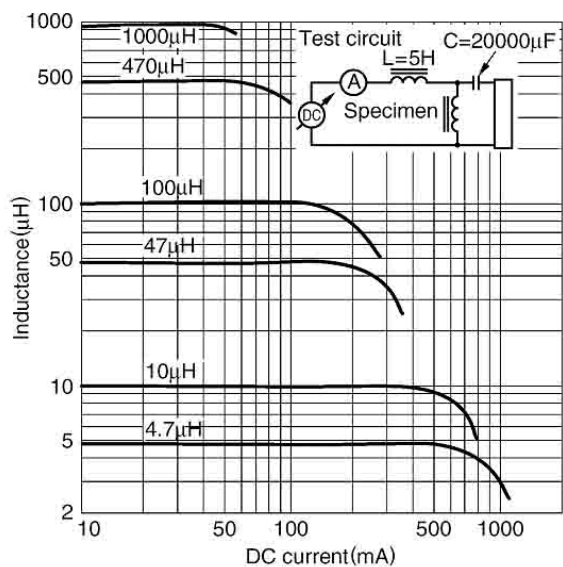
感值频率特性图



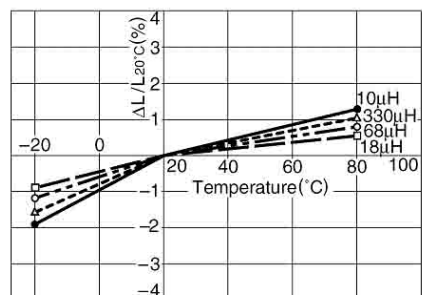
阻抗频率特性图



直流叠加特性图



感值温度特性图



Q 值频率特性图

