



EM 型绕线片式电感器规格书

THE STANDARD STYLE BOOK OF CHIP INDUCTORS

(MODEL EM322522 系列 SERIES)

| |
|--|
| 承认印栏 Signature sheet of acceptor |
| |

内蒙古鄂尔多斯电子有限责任公司。

INNER MONGOLIA ERDOS ELECTRONIC CO., LTD

地 址：中国内蒙古鄂尔多斯市东胜区达拉特南路

ADDRESS: DALATE SOUTH ROAD, DONGSHENG DISTRICT, ERDOS CITY,
INNER MONGOLIA, CHINA.

邮政编码 (P C): 017000

电话 TEL: 0477-8543441 传真 FAX: 0477-8530945

■ 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

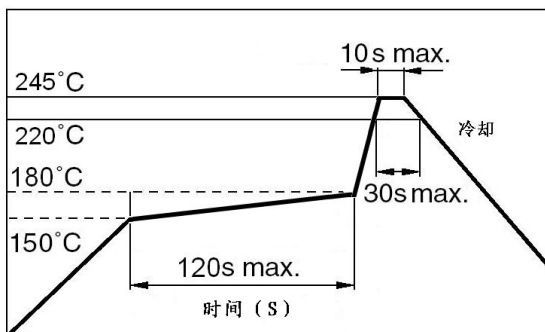
- 可用于计算机、电源、通讯设备、仪器仪表、电视音响等领域的电子电路中。
EM series high reliable wire would chip inductors for communication, equipment, instrument, video & audio have been developen in response to the trend toward higher density mounting of parts in electric circuits.

■ 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

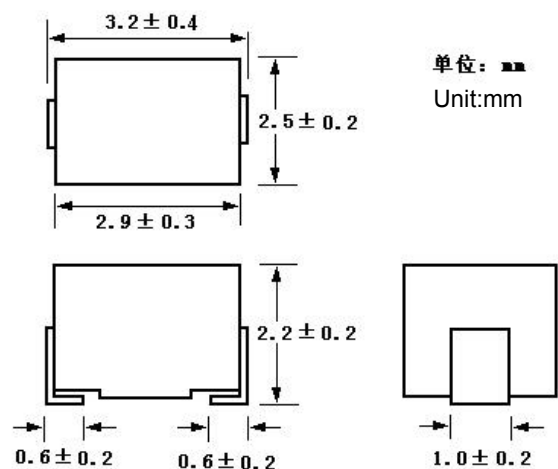
Type Designation & Outer dimensions

(1) 产品系列型号 Type Designation

EM 32 T- 2R2 X
(1) (2) (3) (4) (5)

(2) 外形尺寸 Outer dimensions L × W × T

32 (1210) 公制 Metric $3.2 \times 2.5 \times 2.2 \text{ mm}$
英制 British $0.125 \times 0.100 \text{ inch}$



(3) 包装类型 Packing style

T 编带 (卷轴) Taping

(4) 电感值 Inductance value

| | |
|-----|------|
| 1R0 | 1μH |
| 220 | 22μH |

(5) 电感公差 Inductance tolerance

| | |
|---|------|
| J | ±5% |
| K | ±10% |
| M | ±20% |

■ 单重与包装类型及数量 Piece weight and Packing style and Quantity

| | |
|------------------|-----------------------|
| 单重 Piece weight | 49 mg/支 mg/piece |
| 盘式编带 Reel Taping | 2000 支/盘 pieces/reel |
| 盒内包装 Box | 10000支/盒 pieces/ box |
| 箱外包装 Box | 100000支/箱 pieces/ box |

■ 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.

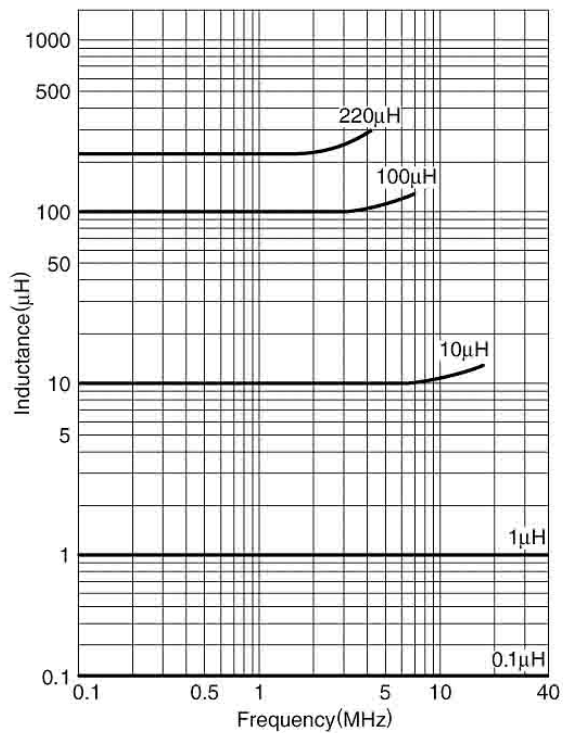
■ 电气特性 Electrical characteristics

| 电感值 Inductance (μ H) | 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. |
|---------------------------------|---------------------------------|-------------|---|---|---|---------------------------------------|--------------------|
| 0.1 | $\pm 20, \pm 10\%$ | 28 | 100 | 700 | 0.44 | 450 | EM322522T-R10X |
| 0.12 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 500 | 0.22 | 450 | EM322522T-R12X |
| 0.15 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 450 | 0.25 | 450 | EM322522T-R15X |
| 0.18 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 400 | 0.28 | 450 | EM322522T-R18X |
| 0.22 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 350 | 0.32 | 450 | EM322522T-R22X |
| 0.27 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 320 | 0.36 | 450 | EM322522T-R27X |
| 0.33 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 300 | 0.4 | 450 | EM322522T-R33X |
| 0.39 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 250 | 0.45 | 450 | EM322522T-R39X |
| 0.47 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 220 | 0.5 | 450 | EM322522T-R47X |
| 0.56 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 180 | 0.55 | 450 | EM322522T-R56X |
| 0.68 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 160 | 0.6 | 450 | EM322522T-R68X |
| 0.82 | $\pm 20, \pm 10\%$ | 30 | 25.2 | 140 | 0.65 | 450 | EM322522T-R82X |
| 1 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 120 | 0.7 | 400 | EM322522T-1R0X |
| 1.2 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 100 | 0.75 | 390 | EM322522T-1R2X |
| 1.5 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 85 | 0.85 | 370 | EM322522T-1R5X |
| 1.8 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 80 | 0.9 | 350 | EM322522T-1R8X |
| 2.2 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 75 | 1 | 320 | EM322522T-2R2X |
| 2.7 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 70 | 1.1 | 290 | EM322522T-2R7X |
| 3.3 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 60 | 1.2 | 260 | EM322522T-3R3X |
| 3.9 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 55 | 1.3 | 250 | EM322522T-3R9X |
| 4.7 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 50 | 1.5 | 220 | EM322522T-4R7X |
| 5.6 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 45 | 1.6 | 200 | EM322522T-5R6X |
| 6.8 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 40 | 1.8 | 180 | EM322522T-6R8X |
| 8.2 | $\pm 10, \pm 5\%$ | 30 | 7.96 | 35 | 2 | 170 | EM322522T-8R2X |
| 10 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 30 | 2.1 | 150 | EM322522T-100X |
| 12 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 20 | 2.5 | 140 | EM322522T-120X |
| 15 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 20 | 2.8 | 130 | EM322522T-150X |
| 18 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 20 | 3.3 | 120 | EM322522T-180X |
| 22 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 20 | 3.7 | 110 | EM322522T-220X |
| 27 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 20 | 5 | 80 | EM322522T-270X |
| 33 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 17 | 5.6 | 70 | EM322522T-330X |
| 39 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 16 | 6.4 | 65 | EM322522T-390X |
| 47 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 15 | 7 | 60 | EM322522T-470X |
| 56 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 13 | 8 | 55 | EM322522T-560X |
| 68 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 12 | 9 | 50 | EM322522T-680X |
| 82 | $\pm 10, \pm 5\%$ | 30 | 2.52 | 11 | 10 | 45 | EM322522T-820X |
| 100 | $\pm 10, \pm 5\%$ | 20 | 0.796 | 10 | 10 | 40 | EM322522T-101X |
| 120 | $\pm 10, \pm 5\%$ | 20 | 0.796 | 10 | 11 | 70 | EM322522T-121X |
| 150 | $\pm 10, \pm 5\%$ | 20 | 0.796 | 8 | 15 | 65 | EM322522T-151X |
| 180 | $\pm 10, \pm 5\%$ | 20 | 0.796 | 7 | 17 | 60 | EM322522T-181X |
| 220 | $\pm 10, \pm 5\%$ | 20 | 0.796 | 7 | 21 | 50 | EM322522T-221X |

- 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



直流叠加特性图

