



**THE DATASHEET OF  
1231AS-H-1R5N=P3**



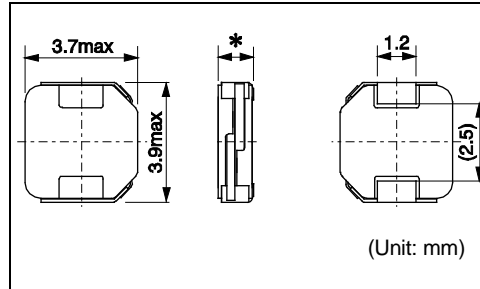
**DEM3518C**

85  
°C

RoHS

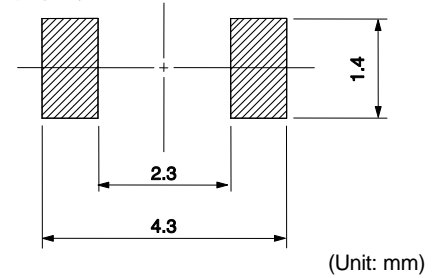
REACH

Inductance Range: 0.56~22μH



Note (\*) 1.8mm Max. height

**Recommended patterns**  
推荐焊盘尺寸



**FEATURES 特点**

- Low profile (3.5 × 3.7mm square, 1.8mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Ideal for a variety of DC-DC converter inductor applications.
- Operating temperature (-40~+85°C)
- 薄型构造（最大3.5x3.7毫米的平面，最大高度1.8毫米）
- 磁性屏蔽结构和低直流电阻
- 是多种DC-DC转换器电感器设备的理想选择
- 使用温度范围：-40 ~ +85°C

**STANDARD PART NUMBERS 标准零件号码**

**TYPE DEM3518C (Quantity/reel; 2,000 PCS)**

零件号码	电感值 <sup>(1)</sup>	公差	最大直流电流 <sup>(2)</sup> (典型)	最大电感减小电流 <sup>(3)</sup> (典型)	最大温度上升电流 <sup>(3)</sup> (典型)
Part Number	Inductance <sup>(1)</sup> (μH)	Tolerance (%)	DC Resistance <sup>(2)</sup> (mΩ) Max. (Typ.)	Inductance Decrease Current <sup>(3)</sup> (A) Max. (Typ.) $\frac{\Delta L}{L} = 30\%$	Temperature Rise Current <sup>(3)</sup> $\Delta T = 40^\circ C$ (A) Max. (Typ.)
1231AS-H-R56N=P3	0.56	± 30	29 (24)	3.30 (4.40)	3.40 (4.00)
1231AS-H-1R2N=P3	1.2	± 30	36 (30)	2.40 (3.20)	2.90 (3.40)
1231AS-H-1R5N=P3	1.5	± 30	42 (35)	2.10 (2.75)	2.70 (3.20)
1231AS-H-2R2M=P3	2.2	± 20	48 (40)	1.90 (2.55)	2.55 (3.00)
1231AS-H-3R3M=P3	3.3	± 20	60 (50)	1.60 (2.10)	2.25 (2.70)
1231AS-H-4R7M=P3	4.7	± 20	72 (60)	1.35 (1.75)	2.00 (2.45)
1231AS-H-6R4M=P3	6.4	± 20	102 (85)	1.15 (1.50)	1.65 (2.00)
1231AS-H-100M=P3	10	± 20	174 (145)	0.90 (1.20)	1.25 (1.50)
1231AS-H-120M=P3	12	± 20	186 (155)	0.85 (1.15)	1.20 (1.45)
1231AS-H-150M=P3	15	± 20	222 (185)	0.80 (1.05)	1.10 (1.30)
1231AS-H-220M=P3	22	± 20	342 (285)	0.65 (0.84)	0.88 (1.05)

(1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent. Test frequency at 100kHz

(2) DC resistance is measured with 34420A (Agilent Technologies) or 3541(HIOKI). (Reference ambient temperature 25°C)

(3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)



(1) LCR仪表4284A (Agilent技术)或者功能相同的仪器在100kHz下测试电感值。

(2) 通过数码万用表34420A (Agilent技术) 或者3541(HIOKI)测试直流电阻。(环境温度为25°C)






(3) 允许最大直流电的范围是以下两者中比较小的一个：引起电感值从最初值降低30%，或者线圈温度升高40°C。(参考周围环境温度20°C)。

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View 1231AS-H-1R5N=P3 on WIN SOURCE](#)
-  [Murata Electronics North America Information](#)

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