



## GENERAL SPECIFICATIONS (电气特性)

|   |  |
|---|--|
| 1. Series model:<br>(系列号)   | SMD3225  |
| 2. Normal Frequency:<br>(标称频率)                                      | 8~54MHz  |
| 3. Oscillation Mode:<br>(振动模式)                                      | <input checked="" type="checkbox"/> Fundamental <input type="checkbox"/> 3rd                                       |
| 4. Load Capacitance(CL):<br>(负载电容)                                  | 20PF   |
| 5. Frequency Tolerance 25±3℃:<br>(频率偏差 25±3℃)                       | ±10PPM   |
| 6. Stability Over Temperature Range:<br>(工作温度频率偏差)                  | ±30 PPM  |
| 7. Effective Series Resistance:<br>(等效电阻)                           | 8~9.84375MHZ ≤ 180 Ω<br>10~11.0592MHZ ≤ 120 Ω<br>12~13.560MHZ ≤ 80 Ω<br>13.598~14.318MHZ ≤ 60 Ω<br>16~54MHZ ≤ 40 Ω |
| 8. Shunt Capacitance(C0):<br>(静态电容)                                 | ≤ 5 PF   |
| 9. Typical drive level:<br>(激励功率)                                   | 10 uW TYP.   |
| 10. Operation Temperature Range:<br>(工作温度范围)                        | -40℃ to +85℃   |
| 11. Storage Temperature:<br>(存储温度)                                  | -40℃ to +85℃   |
| 12. Insulation Resistance:<br>(绝缘阻抗)                                | ≥500 MΩ at DC 100V   |
| 13. Aging:<br>(老化率)   | ±3 PPM/Year  |
| 14. Leak<br>(检漏)  | 1×10 <sup>-7</sup> Torr.1/sec Max  |
| 15. Test circuit<br>(测试仪器)  | S&A 250B Pi-Network Crystal Measurement System   |
| Remark (备注):<br>晶振最佳储存条件: 温度: 25±5℃, 湿度: <70%。<br>密封包装, 切勿挤压, 小心跌落。 |  |

## DIMENSIONS SPECIFICATIONS (外形尺寸)



Marking #2and#4 are connected to metal cap of top

| 型号   | 外形尺寸(±0.15mm) |     |     |     |     |     |     |     |     |
|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
|      | L1            | L2  | L3  | L4  | W1  | W2  | W3  | W4  | H   |
| 5032 | 5.0           | 3.0 | 1.2 | 1.7 | 3.2 | 0.9 | 0.7 | 1.5 | 0.9 |
| 3225 | 3.2           | 1.3 | 0.8 | 1.4 | 2.5 | 0.7 | 0.5 | 1.2 | 0.7 |
| 2520 | 2.5           | 0.9 | 0.6 | 1.1 | 2.0 | 0.6 | 0.4 | 1.0 | 0.5 |
| 2016 | 2.0           | 0.7 | 0.5 | 0.9 | 1.6 | 0.5 | 0.3 | 0.8 | 0.5 |



## STRUCTURE DIAGRAM (结构图示)



## PACKING (包装)

Shear strength between cover and carrier tape should be 30-100g.

Carrier tape should be folded over three times with no break at all.



| DIMENSIONS  |      | A          | B          | C          | D        | E        | L          | L1        | W           | W1       |
|-------------|------|------------|------------|------------|----------|----------|------------|-----------|-------------|----------|
|             | 7050 |            | 2.15       | 7.9        | 5.4      | 8        | 16         | 180       | 13          | 21.5     |
| 6035        |      | 1.5        | 6.4        | 3.9        | 8        | 12       | 180        | 13        | 15.4        | 13       |
| 5032        |      | 1.5        | 5.5        | 3.6        | 8        | 12       | 180        | 13        | 15.4        | 13       |
| <b>3225</b> |      | <b>1.4</b> | <b>3.5</b> | <b>2.7</b> | <b>4</b> | <b>8</b> | <b>180</b> | <b>13</b> | <b>11.5</b> | <b>8</b> |
| 2520        |      | 1.2        | 3.4        | 2.5        | 4        | 8        | 180        | 13        | 11.5        | 8        |

Unit : mm

Standard Reel Quantity is **3000 pcs** per reel.

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