



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## SM Beads (Differential- Mode)

Part Number: 2744555566

44 SM BEAD

### Explanation of Part Numbers:

- Digits 1 & 2 = Product Class
- Digits 3 & 4 = Material Grade
- – Last digit 6 = Bulk Packed, 7 = Taped and Reeled

**Surface mount beads are available from Fair- Rite in several materials and sizes. Their rugged construction lowers the dc resistance and increases current carrying capacity compared to plated beads.**

- Wires are oxygen free high conductivity copper with 100% matte tin plating over a nickel undercoating.
- SM Beads meet the solderability specifications when tested in accordance with MIL- STD-202, method 208. After dipping the mounting site of the bead, the solder surface shall be at least 95% covered with a smooth solder coating. The edges of the copper strip are not specified as solderable surfaces.
- After preheating the beads to within 100 °C of the soldering temperature, the parts meet the resistance to soldering requirements of EIA-186-10E, temperature 260 ±5 °C and time 10 ±1 seconds.
- Recommended storage and operation temperature is -55 °C to 125 °C.
- Our “Surface Mount Bead Kit” (part number 0199000025) is available for prototype evaluation.

### Packaging Options:

- □ – SM Beads on 12 mm tape width are supplied taped and reeled per EIA 481 and IEC 60286-3 standards. SM Beads on 16 and 24 mm tape widths are supplied taped and reeled per EIA 481 and IEC 60286-3 standards. Taped and reeled parts are supplied on a 13” reel.
- – SM Beads can also be supplied not taped and reeled and then are bulk packed. This packing method will change the last digit of the part number to a “6”.
- **For any SM Bead requirement not listed, please contact our customer service group for availability and pricing.**

Suggested land patterns are in accordance with the latest revision of IPC-7351.

Weight: 0.96 (g)

| Dim | mm  | mm tol | nominal inch | inch misc. | Land Patterns    |                  |                  |                  |   |
|-----|-----|--------|--------------|------------|------------------|------------------|------------------|------------------|---|
| A   | 5   | Max    | 0.197        | Max        | V                | W                | X                | Y                | Z |
| B   | 5   | ±0.25  | 0.197        | —          | 2.00<br>(0.079”) | 7.00<br>(0.276”) | 2.00<br>(0.079”) | 5.00<br>(0.197”) | — |
| C   | 11  | Max    | 0.433        | Max        |                  |                  |                  |                  |   |
| D   | 2.5 | ±0.50  | 0.098        | —          |                  |                  |                  |                  |   |

### Chart Legend

+ Test frequency

| Typical Impedance (Ω) |     |
|-----------------------|-----|
| 10 MHz                | 150 |
| 25 MHz <sup>+</sup>   | 250 |
| 100 MHz <sup>+</sup>  | 375 |
| 250 MHz               | 385 |

| Electrical Properties |     |
|-----------------------|-----|
| Max Rdc(mΩ)           | 3.8 |

☐ SM Beads are controlled for impedance limits only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed value less 20%. SM Beads in 73, 43 and 44 materials are measured for impedance on the 4193 Vector Impedance Analyzer. The 52 and 61 SM Beads are tested for impedance on the 4291A RF Impedance Analyzer.

☐ The maximum practical current rating for these SM Beads is 5 amps, check the component bias curves. The 019/021/037 and 044 SM Beads can withstand a continuous current of 10 amps resulting in a component temperature rise < 40 °C



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