

Ferrite beads (or chips) are recommended for ICS products, for power supply filtering of the 3.3V or 5.0V supply.

The three leading parameters to consider when selecting ferrite bead are DC resistance, AC impedance, and bias current rating. What is desired for good isolation is a low pass power filter. For that a bead with some DC resistance is best. How much resistance depends on how much voltage drop is allowed and therefore the maximum current of the device being powered.

For all power supply currents less than 200 mA, the Dale ILB-1206-300 is the recommended choice.

| Manufacturer | Part Number | Bias Current (ma) | Pkg. Size | DC Resistance | Impedance @ 100MHz |
|---------------------|--------------------|--------------------------|------------------|----------------------|---------------------------|
| Murata | BLM21A601R | 500 | 0805 | 0.30 | 600 |
| Dale | ILB-1206-300 | 250 | 1206 | 0.30 | 300 |
| FairRite | 2512066017X1 | 200 | 1206 | 0.30 | 600 |
| TDK | ACB2012M-150-T | 300 | 0805 | 0.50 | 150 |

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