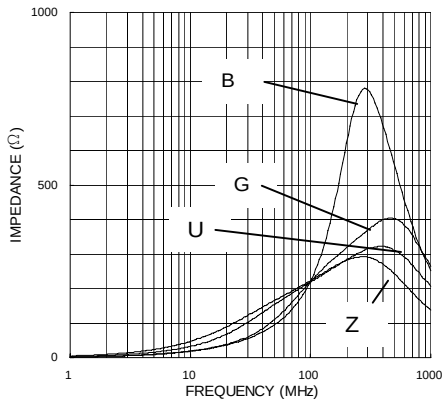
# Magnetic Technology Worldwide Sdn Bhd/Keentech

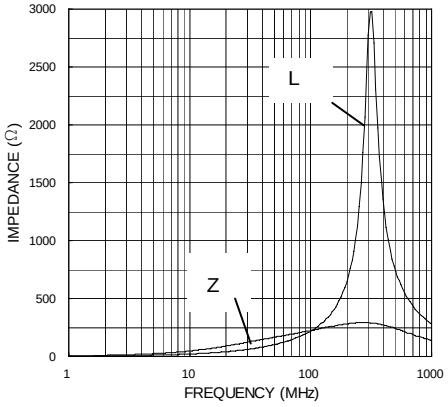
# Multilayer Ferrite Chip Beads

## Material Characteristics

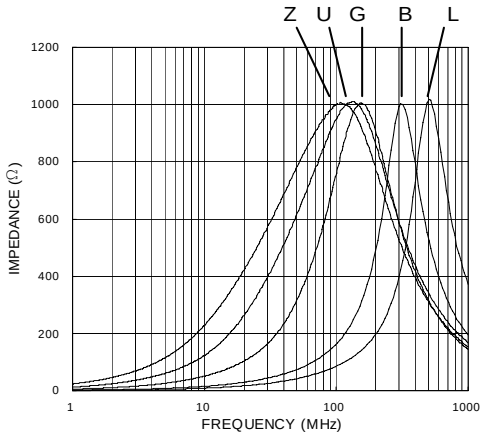
| ITEM | | UNIT | Material Code | | | | |
|---|---|---|---|---|---|---|---|
| | | | L | B | G | U | Z |
| Initial permeability | $\mu_{iac}$ | — | 25 | 45 | 110 | 200 | 500 |
| Maximum Permeability | $\mu_M$ | — | 125 | 125 | 250 | 450 | 900 |
| Saturation Flux Density at 10 Oe | Bs | Gauss | 2000 | 2000 | 1700 | 1400 | 1500 |
| Curie Temperature | Tc | ℃ | >200 | >200 | >130 | >130 | >100 |
| Volume Resistivity | $\rho$ | Ω-m | $10^5$ | $10^5$ | $10^5$ | $10^5$ | $10^5$ |
| Temperature Coefficient (Inductance) | | $10^{-4}$/℃ | 10 | 10 | 12 | 13 | 5 |
| Density | | g/cm$^3$ | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |

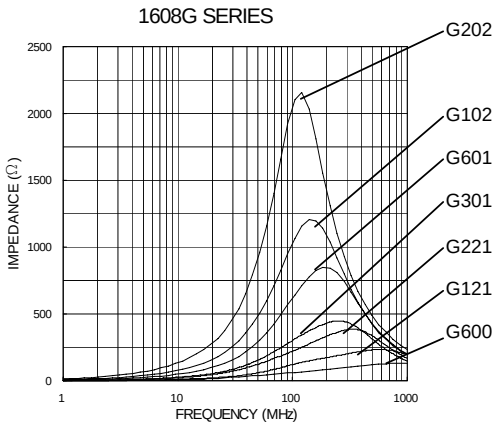
IMPEDANCE CHARACTERISTICS OF MATERIALS




- ✱ **Z Material is for applications whose blocking region is near 100 MHz.**
- ✱ **L material, an improvement of B material, has sharp impedance characteristics at high frequency.**
- ✱ **G material is for application whose signal frequency is far from the cut off region. Suitable for application requires low insertion loss at high frequency.**
- ✱ **Please confirm the signal waveform to choose suitable products.**




- ✱ Different materials are available for different application range.
- ✱ With one material, higher impedance has sharper characteristics.