TDK

January 2022

Ferrite Cores for EMI Suppression

Material Characteristics

⚠ REMINDERS FOR USING THESE PRODUCTS

Please be sure to read this manual thoroughly before using the products.

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet.
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

(1) Aerospace/Aviation equipment
(2) Transportation equipment (electric trains, ships, etc.)
(3) Medical equipment
(4) Power-generation control equipment
(5) Atomic energy-related equipment
(6) Seabed equipment
(7) Transportation control equipment
(8) Public information-processing equipment
(9) Military equipment
(10) Electric heating apparatus, burning equipment
(11) Disaster prevention/crime prevention equipment
(12) Safety equipment
(13) Other applications that are not considered general-purpose applications

When using this product in general-purpose standard applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc to ensure higher safety.

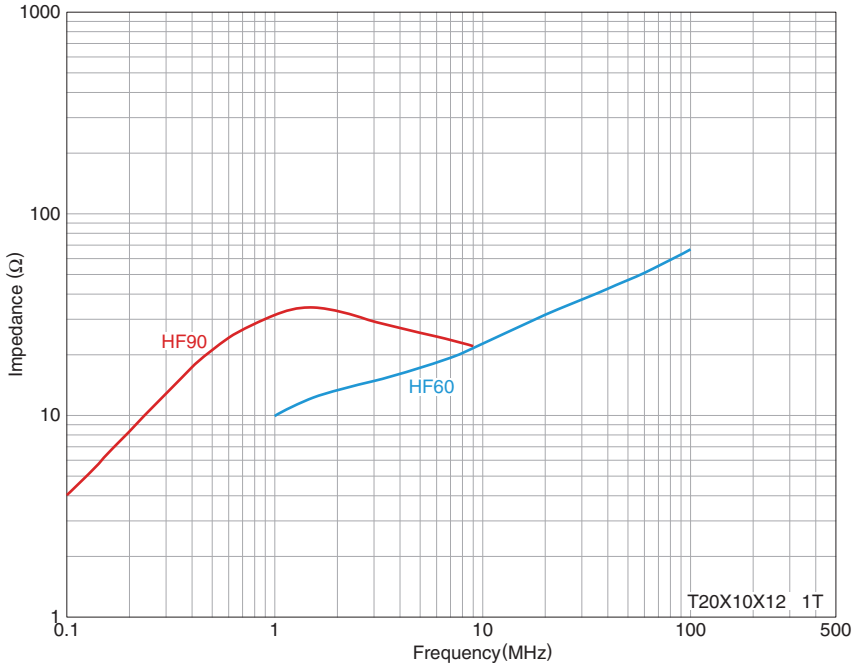
Contents

Material List of Ferrite Cores for EMI Suppression

MATERIAL CHARACTERISTICS

Material	Material affiliates	Initial permeability μi	Curie temperature Tc (°C)	Saturation magnetic flux density Bs (mT)	Electrical resistivity ρ (Ω • m)
HF90	Mn-Zn	5000	>165	485[H=1194A/m]	0.3
HF60	Mn-Zn	1600	>130	300[H=1194A/m]	4

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

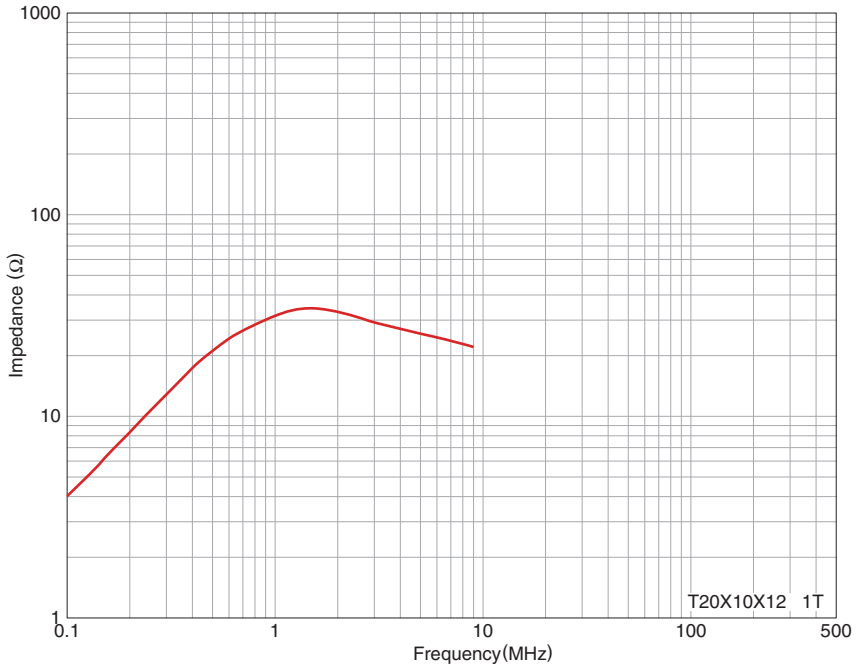


Ferrite Cores for EMI Suppression **Material List of HF90**

MATERIAL CHARACTERISTICS (Mn-Zn)

Initial permeability μi	Temperature factor of initial permeability αμir (×10⁻⁶/°C)	Curie temperature Tc (°C)	Saturation magnetic flux density Bs (mT)	Electrical resistivity ρ (Ω • m)
5000	—	>165	485[H=1194A/m]	0.3

IMPEDANCE vs. FREQUENCY CHARACTERISTICS



Ferrite Cores for EMI Suppression **Material List of HF60**

MATERIAL CHARACTERISTICS (Mn-Zn)

Initial permeability μi	Temperature factor of initial permeability αμir (×10⁻⁶/°C)	Curie temperature Tc (°C)	Saturation magnetic flux density Bs (mT)	Electrical resistivity ρ (Ω • m)
1600	—	>130	300[H=1194A/m]	4

IMPEDANCE vs. FREQUENCY CHARACTERISTICS