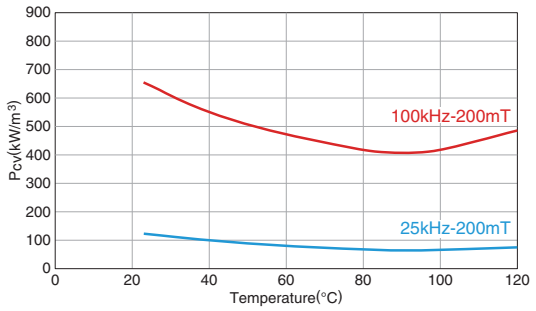
Mn-Zn Large Size Ferrite for High Power **Material List of PC40**

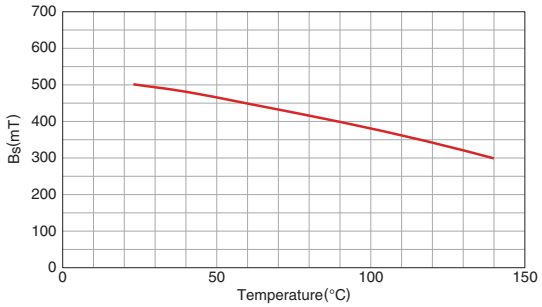
MATERIAL CHARACTERISTICS

Initial permeability μi 23°C	Curie temperature Tc (°C)	Saturation magnetic flux density Bs (mT) H=1194A/m 23°C	Saturation magnetic flux density Bs (mT) H=1194A/m 100°C	Remanent flux density Br (mT) H=1194A/m 23°C	Coercive force Hc (A/m) H=1194A/m 23°C	Core loss Pcv (kW/m³) B=200mT 25kHz 90°C	Core loss Pcv (kW/m³) B=200mT 25kHz 100°C	Core loss Pcv (kW/m³) B=200mT 100kHz 100°C	Electrical resistivity ρ (Ω • m)	Approximate density dapp (kg/m³) ×10³	Thermal expansion coefficient α (1/K) ×10⁻⁶	Thermal conductivity κ (W/mK)	Specific heat Cp (J/kg • K)	Bending strength δb3 (N/m²) ×10⁷	Young's modulus E (N/m²) ×10¹¹	Magnetostriction λs ×10⁻⁶
2300	>200	500	380	125	15	64	70	420	6.5	4.8	12	5	600	9	1.2	–0.6

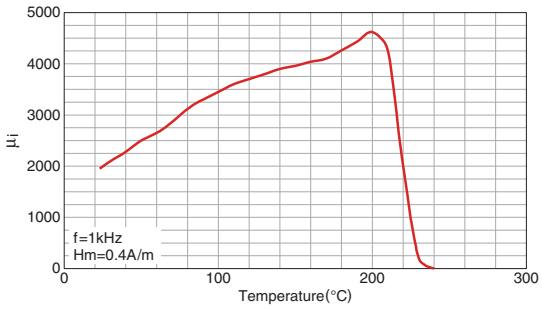
Core loss vs. temperature characteristics(Typ.)



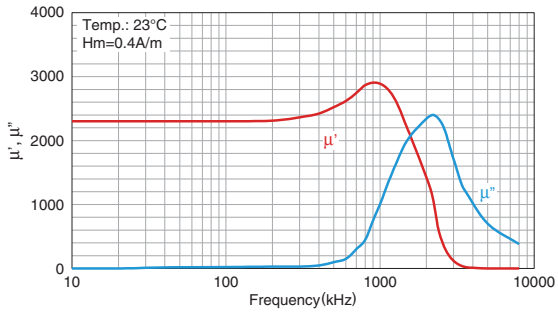
Saturation magnetic flux density vs. temperature characteristics(Typ.)



Initial magnetic permeability vs. temperature characteristics(Typ.)



Magnetic permeability vs. frequency characteristics(Typ.)



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□Core loss vs. temperature characteristics