

Reference Tables

Ferrite Material Constants

Specific Heat	0.25 cal/g/°C
Thermal Conductivity	10x10 ⁻³ cal/sec/cm/°C
Coefficient of Linear Expansion	8 - 10x10 ⁻⁶ /°C
Tensile Strength	4.9 kgf/mm ²
Compressive Strength	42 kgf/mm ²
Young's Modulus	15x10 ³ kgf/mm ²
Hardness (Knoop)	650
Specific Gravity	≈ 4.7

The above quoted properties are typical for Fair-Rite MnZn and NiZn ferrites.

Properties of Parylene C Coating Material

Dielectric Strength	5600	V/mil
Volume Resistivity	8.8x10 ¹⁶	ohm-cm
Surface Resistivity	10 ¹⁴	ohm
Dielectric Constant (1MHz)	2.95	
Dissipation Factor (1MHz)	0.013	
Density	1.29	g/cm ³
Water Absorption (24 hrs)	<0.1	%
Coefficient of Friction	0.29	
Continuous Operating Temperature	<100	°C
Thermal Conductivity	2.0x10 ⁻⁴	cal/sec/cm/°C
Maximum Operating Temperature	<160	°C

Conversion Table

SI Units	CGS Units
1 T (tesla) = 1 Vs/m ²	= 10 ⁴ gauss
1 mT	= 10 gauss
1 A/m = 10 ⁻² A/cm	= 0.0125 oersted
.1 mT	= 1 gauss
80 A/m	= 1 oersted

Greek Alphabet

A, α	Alpha	N, ν	Nu
B, β	Beta	Ξ, ξ	Xi
Γ, γ	Gamma	Ο, ο	Omicron
Δ, δ	Delta	Π, π	Pi
E, ε	Epsilon	Ρ, ρ	Rho
Z, ζ	Zeta	Σ, σ	Sigma
H, η	Eta	T, τ	Tau
Θ, θ	Theta	Υ, υ	Upsilon
I, ι	Iota	Φ, φ	Phi
K, κ	Kappa	X, χ	Chi
Λ, λ	Lambda	Ψ, ψ	Psi
M, μ	Mu	Ω, ω	Omega