

Ferrite for Telecommunication High Permeability Material H5C5

This material has accomplished initial permeability(μ i) to 30,000, that is two times of existing best material H5C3, thus it enables transformers to be more compact and thinner. We offer it as troidal cores for pulse transformers currently, however, the cores for communicating devices such as EP cores and RM cores will be available in the future.

FEATURES

- Initial permeability(μi)=30,000
- Tansformers can be more compact and thinner. In addition, the numbers of winding turn can be reduced.
- Toroidal cores are available. Also shaped cores are programed.

APPLICATIONS

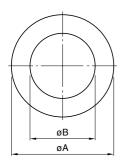
- Pulse transformers for LAN devices.
- Common mode chokes for LAN devices.

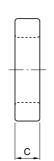
MATERIAL CHARACTERISTICS

Material			H5C5
Initial permeability [10kHz, 10mV, 10Truns]	μi		30000±30%
Relative loss factor	tanδ/μ	ii	<15×10 ⁻⁶
Saturation magnetic flux density*[1194A/m]	Bs	mT	380
Remanent flux density*	Br	mT	100
Coercive force*	Hc	A/m	4.2
Curie temperature*	Tc	°C	>110
Disaccommodation factor [10 to 100min.]	DF		<2×10 ⁻⁶
Density	db	kg/m ³	5.0×10 ³ typ.
Resistivity	ρν	Ω•m	0.15

- * Average value
- The values were obtained with toroidal cores temperature unless otherwise
- Only toroidal cores from OD: 2.54mm to OD: 6mm.

SHAPES AND DIMENSIONS



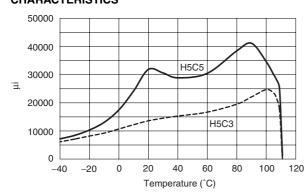




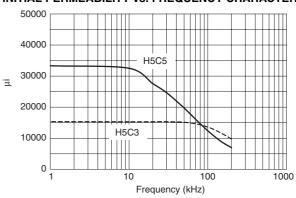
Dimensions in mm

			Dimionorono in mini
	H5C5T3.05×1.27×1.27	H5C5T4×2×2	H5C5T6×1.5×3
øΑ	3.05±0.2	4.0±0.2	6.0±0.3
øΒ	1.27±0.2	2.0±0.2	3.0±0.25
С	1.27±0.2	2.0±0.2	1.5±0.2

INITIAL PERMEABILITY vs. TEMPERATURE CHARACTERISTICS



INITIAL PERMEABILITY vs. FREQUENCY CHARACTERISTICS



[•] All specifications are subject to change without notice.