TDK

February 2025

Mn-Zn

Large Size Ferrite Cores for High Power

T series

⚠ 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.
When using the products for specific purposes, please first make confirmations in areas such as safety, reliability, and quality.
Please understand that we are not in a position to be held responsible for any damage or the like caused by any use exceeding the range or conditions of this specification sheet or by any use in the specific applications.

(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.

Large Size Ferrite Cores for High Power

Product compatible with RoHS directive
Halogen-free

Overview of the T Series

FEATURES

- Large size cores for transformers with large power outputs.
- Can also be used in reactors.

APPLICATION

- Large size industrial equipment, transformers for consumer equipment
- Reactors

PART NUMBER CONSTRUCTION

PE22 T 51 × 13 × 31

Material	Core shape	Outside Diameter	Thickness	Inside Diameter
PE22	T	51	13	31
PC40		62	20	39
PC95		72		48
PEL95		80		50
PEM95		96		70
		104		80

RANGE OF USE AND STORAGE TEMPERATURE

Temperature range	
Operating temperature (°C)	Storage temperature (°C)
–30 to +105	–30 to +85

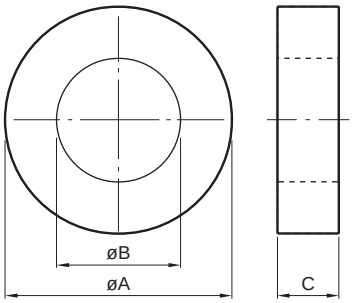
- RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
Please note that the contents may change without any prior notice due to reasons such as upgrading.

Mn-Zn系 T Cores



SHAPES AND DIMENSIONS



PE22 T 51 × 13 × 31

- PE22: Material
- T: Core shape
- 51: Outside Diameter
- 13: Thickness
- 31: Inside Diameter

Part No. Material	Shape Dimensions	Dimensions (mm) øA	øB	øC	Effective parameter Core factor C1 (mm-1)	C2 x10-2 (mm-3)	Effective cross-sectional Ae (mm2)	Effective magnetic path length Le (mm)	Effective core volume Ve (mm3)	Weigh (Approx.) (g)	Electrical characteristics AL-value (nH/N2) 1kHz, 0.4A/m 23°C
PE22	T51x13x31	51.0±1.0	31.0±0.6	13.0±0.5	0.97084	0.76235	127	124	15740	80	2330±25%
PC40											2980±25%
PC95											—
PEL95											—
PEM95											—
PE22	T62x13x39	62.5±1.2	39.0±0.8	13.5±0.5	0.98689	0.63377	156	154	23930	121	2290±25%
PC40											2930±25%
PC95											—
PEL95											—
PEM95											—
PE22	T72x20x48	72.0±1.5	48.0±0.9	20.0±0.5	0.77481	0.32729	237	183	43420	217	2920±25%
PC40											3730±25%
PC95											—
PEL95											—
PEM95											—
PE22	T80x20x50	80.0±1.6	50.0±1.0	20.0±0.5	0.66842	0.22694	295	197	58990	294	3380±25%
PC40											4320±25%
PC95											—
PEL95											—
PEM95											—
PE22	T96x20x70	96.0±1.9	70±1.5	20.0±0.5	0.99464	0.38574	258	256	66130	325	2270±25%
PC40											2910±25%
PC95											—
PEL95											—
PEM95											—
PE22	T104x20x80	104.0±2.1	80	20.0±0.5	1.19742	0.50179	239	286	68180	333	1890±25%
PC40											2410±25%
PC95											—
PEL95											—
PEM95											—

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