Ferrite Cores for Switching Power Supplies
Mn-Zn

RoHS Halogen Free

SP series

Product Portal Search Tech Library Tech Note

FEATURES

- A ferrite core for transformers.
- Can also be used in reactors.

APPLICATION

- Large size industrial equipment, transformers for consumer equipment
- Reactors
- Wireless power transfer

PART NUMBER CONSTRUCTION

PC40 SP 25 x 25 x 5

Material	Core shape	Dimension A	Dimension B	Dimension C
PC40	SP	25	25	5
PC95		50	50	5
PEL95		100	100	5
PEM95		70	200	20
PEH95		110	40	20
		135	65	20

RANGE OF USE AND STORAGE TEMPERATURE

Temperature range		
Warehouse temperature * (°C)	Storage temperature ** (°C)	Operating temperature *** (°C)
+5 to +40	−30 to +85	−30 to +105

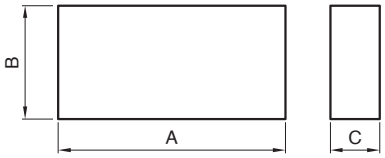
* Indicates the storage temperature in its packaged state.
** Indicates the temperature when installed in the operating equipment.
*** Includes self-heating. Since the operating temperature range varies depending on usage conditions, if the temperature exceeds this limit, please evaluate and confirm that there are no operational issues before use.

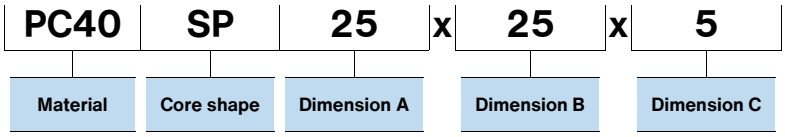
- RoHS Directive Compliant Product: See the following for more details. https://product.tdk.com/en/environment/rohs/index.html
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

⚠ 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.

SP series

SHAPE & DIMENSIONS





Material	Shape Dimensions	Dimensions (mm) A	B	C	Part No.
PC40	SP25x25x5	25.0±0.5	25.0±0.5	5.0±0.5	PC40SP25x25x5
PC95					PC95SP25x25x5
PEL95					PEL95SP25x25x5
PEM95					PEM95SP25x25x5
PEH95					PEH95SP25x25x5
PC40	SP50x50x5	50.0±1.0	50.0±1.0	5.0±0.5	PC40SP50x50x5
PC95					PC95SP50x50x5
PEL95					PEL95SP50x50x5
PEM95					PEM95SP50x50x5
PEH95					PEH95SP50x50x5
PC40	SP100x100x5	100±2.0	100±2.0	5.0±0.5	PC40SP100x100x5
PC95					PC95SP100x100x5
PEL95					PEL95SP100x100x5
PEM95					PEM95SP100x100x5
PEH95					PEH95SP100x100x5
PC40	SP70X20X20	70.0±1.4	20.0±0.4	20.0±0.5	PC40SP70X20X20
PC95					PC95SP70X20X20
PEL95					PEL95SP70X20X20
PEM95					PEM95SP70X20X20
PEH95					PEH95SP70X20X20
PC40	SP110x40x20	110.0±2.2	40.0±0.8	20.0±0.5	PC40SP110x40x20
PC95					PC95SP110x40x20
PEL95					PEL95SP110x40x20
PEM95					PEM95SP110x40x20
PEH95					PEH95SP110x40x20
PC40	SP135X65X20	135.0±2.5	65.0±1.5	20.0±0.5	PC40SP135X65X20
PC95					PC95SP135X65X20
PEL95					PEL95SP135X65X20
PEM95					PEM95SP135X65X20
PEH95					PEH95SP135X65X20

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⚠ 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 (cars, 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 these products in general purposes and standard use, it is recommended that protection circuits are used, devices are secured, and backup circuits are kept for increased safety.