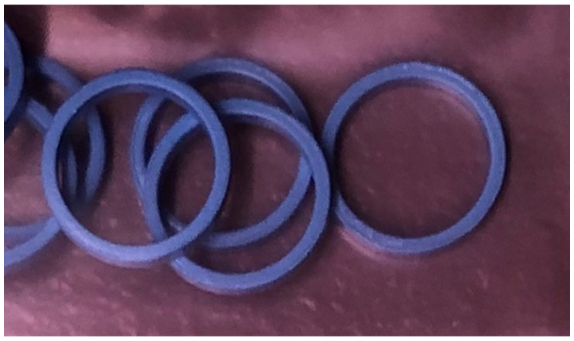
TAPE WOUND BOBBIN CORES



Applied Physics Systems (APS) is the successor to Magsense in the tape wound core business and as such can supply a wide variety of tape wound bobbin cores.

The tape materials that we currently stock are as follows:

1. Supermalloy
2. Square Orthonal (Deltamax)

STANDARD TAPE WIDTH AND THICKNESS

Standard tape width and thickness are as follows:

Widths: 1/32", 1/16", 1/8", 1/4"
Thickness: 1/8 mil, 1/4 mil, 1/2 mil, 1 mil

Tape wound cores employ non-magnetic stainless-steel bobbins which are usually sleeved and painted to provide protection for the magnetic tape and voltage isolation between user applied toroidal drive coils and the bobbin.

Some low voltage applications (e.g. fluxgate magnetometers) do not require sleeving and painting, and we can provide these bobbin cores with shorter delivery times and at somewhat lower cost as compared to sleeved and painted cores.

To specify a tape wound bobbin core the user should provide the following information:

1. Toroidal bobbin
2. Tape material, width and thickness
3. Number of wraps of the tape or alternatively, the flux capacity of the core
4. Whether sleeving and painting is required
5. Optionally, a GVB (guaranteed voltage breakdown) parameter

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6. Optionally for square permalloy and square orthogonal, a squareness requirement

PART NUMBER – MATERIAL - THICKNESS

Tape wound cores can also be specified by providing a Magnetics Inc. part number. These bobbin cores are industry standard parts and typically have part numbers similar to the following:

80609-9D-MA

The 80609 part of this number specifies the bobbin size. The second 9 specifies the material thickness and the D is the material type.

The materials available from APS have designations as follows:

MATERIAL	DESIGNATION
Square permalloy	D
Supermalloy	F

Tape thickness available from APS have the designations:

TAPE THICKNESS	DESIGNATION
1/8 mil	9
1/4 mil	0
1/2 mil	5
1 mil	1

APS supplies a line of bobbin cores of a variety of sizes; contact us for more information on bobbin sizes.

Specifications are subject to change without notice.