

## Magnetics Part Numbering System

Magnetics	Core Type	Case Type	Core Size	Material	Thickness	Loop Type	Customer Specific
S	X	X	XXXX	X	X	X	- X

### C-Core Part Number Example

**SC1000M1**, "S" = MK Magnetics, "C" = C-core, no "Case Type" call out means no case or epoxy coating, "1000" = part size, "M" = Nanocrystalline, "1" = .001" thick material, no "Loop Type" (BH loop) call out immediately after material thickness means standard loop, not ending with a "dash" & "Customer Specific" call out means it is a standard part number

**SC1000M1F**, Same as above, but with non-standard "Loop Type" letter indicator when needed, "F" = flat loop

**SCX1000M1F**, Same as above, but with "Case Type" letter indicator when needed, "X" = epoxy coated

**SC1000M1F-A**, Same as above but with non-standard "Customer Specific" letter indicator when needed, "A" = customer specific part number, this letter indexes for each customer ordering this same part with a special requirement

### E-Core & T-Core Part Number Example

Same as C-core, but "Core Type" becomes an "E" for E-core and "T" for toroid

Core Type Indicator		Description	Core Dimensional Parameters			
C	=	C-core	D	E	F	G
E	=	E-core	D	2E	F	G
T	=	Toroid	D	ID	OD	
P	=	Pie/Circular core	D	IR	OR	
D	=	D-core	D	E	OR	
B	=	Bar/Block	D	E	L	

## Core Material Type Indicators

<b>A</b>	Standard Grade, 3% grain-oriented silicon steel, .001", .002", .004", .009" M3, .012" M5
<b>B</b>	Z-Type, High Flux Grade, 3% grain-oriented silicon steel, .002", .004", .007" M2, .009" & .011" Domain Refined-H Hi-B
<b>C</b>	Premium-Z-Type, Super Oriented High Flux Grade, 3% grain-oriented silicon steel, .004" only
<b>D</b>	Supermalloy, 80% Nickel, Molybdenum 5.0%-6.0%, Balance Iron, .0005", .001", .002", .004", thicker on special order
<b>E</b>	Permalloy-80, 80% Nickel, Molybdenum 4.0%-5.0%, Balance Iron, .0005", .001", .002", .004", thicker on special order
<b>F</b>	Square Permalloy-80, 80% Nickel, Molybdenum 4.0%-5.0%, Balance Iron, .0005", .001", .002", .004", thicker on special order
<b>G</b>	Square 50% Nickel, 50% Nickel, Balance Iron, .0005", .001", .002", .004", thicker on special order
<b>H</b>	Round 50% Nickel 4750 alloy, Transformer Grade, 50% Nickel, Balance Iron, .001", .002", .004", thicker on special order
<b>J</b>	Supermendur®, 49% Cobalt, 49% Iron, 2% Vanadium, .002", .004", round, square loop
<b>K</b>	2V-Permendur, 49% Cobalt, Balance Iron, Special order
<b>L</b>	Amorphous Metglas® 2605SA1 .001", standard square anneal, round loop available, Optiffluent Low Loss Series
<b>M&amp;MB</b>	Nanocrystalline: Prime "M" .0007" & .0005", Grade "MB" domestically produced Finemet FT3-W @ 5.6" width. Standard round loop anneal, square & transverse available
<b>P</b>	6.5% .004" non-oriented silicon steel
<b>S</b>	M19, 3% non-oriented silicon steel, .014"
<b>T</b>	M4, 3% grain-oriented silicon steel, .011"

Other specialized materials may be available. Please contact Engineering.

<b>Thickness Indicator</b>	.0004"-.0006" = 5 .0007"-.001" = 1 .002" = 2 .004" = 4 .007" = 7 .009" = 9 .011" = A .012" = B .014" = C
<b>Special Hysteresis Loop Type Modifiers</b>	F = Flat Loop Anneal, Metglas 2605SA1 only R = Round Loop Anneal, std for nanocrystalline S = Square Loop Anneal, std for Metglas 2605SA1 T = Transverse Loop Anneal, available for Nanocrystalline

### Case Type Indicator for Cased Toroids

<b>A</b>	Machined nylon, silicone grease damped, unsealed
<b>B</b>	Glass filled injection molded nylon, silicone grease damped, unsealed
<b>C</b>	Phenolic case, customer specified damping, unsealed
<b>D</b>	Aluminum epoxy coated, silicone rubber damped, sealed
<b>E</b>	Anodized aluminum, silicone rubber damped, unsealed
<b>F</b>	Customer supplied case, customer specified damping
<b>X</b>	Epoxy fluidize coated