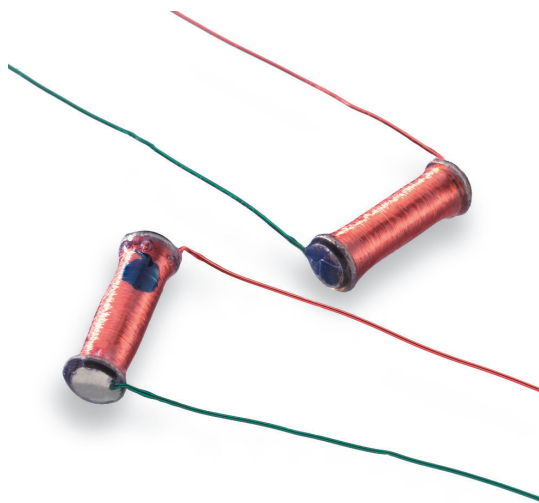


model **5100**

PASSIVE TELECOIL

technical datasheet



> features <

- Various electrical parameter available
- Various sizes available
- Solid or Litz wire leads
- Polyurethane coating on coil
- Radial or axial lead configuration

> specifications <

Mechanical Data (Summary)

Length Varies between 5.1 mm – 7.6 mm
 Width Varies between 1.2 mm – 2.12 mm

Electrical Data

(see table "Model PT Standard Configurations" for detailed specifications)

Parameter	Range
DC Resistance	410 – 3500 Ω
Series Inductance	43 – 540 mH
Sensitivity @ 1kHz	
Open Circuit	-60.0 to -49.1 dBV
With 10 kW Load	-63.0 to -52.5 dBV

Test Conditions for electrical data:

Supply Voltage 1.30 VDC
 Temperature 25°C
 Magnetic Field 1 A/m
 Major Axis Parallel to magnetic field

Environmental Data

Operating Temperature -10°C to 40°C
 Storage Temperature -20°C to 70°C

Construction

Terminals Solid insulated, solid uninsulated or Litz
 Covering Polyurethane coating
 Specifications subject to change.

model pt standard configurations

Order Code	Length (mm) Max.	Width (mm) Max.	Leads	Coating	DC Resistance (Ohms $\pm 10\%$)	Series Inductance (mH $\pm 5\%$)	Sensitivity (Open Circuit) @ 1 kHz [dBV (1 A/m)] ± 2 dB	Sensitivity (10k Ohm Load) @ 1 kHz [dBV (1 A/m)] ± 2 dB	Q (at 50 kHz)	Lead Configuration	Drawing
PT-C-01-25-51-SIA	6.64	1.98	Solid	Polyurethane	410	43	-59.0	-60.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-01-35-51-SIA	6.64	1.98	Solid	Polyurethane	660	75	-56.0	-57.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-01-45-52-SIA	6.64	1.98	Solid	Polyurethane	1000	135	-58.0	-59.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-01-50-53-SIA	6.64	1.98	Solid	Polyurethane	1250	165	-56.0	-59.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-01-58-52-SIA	6.64	1.98	Solid	Polyurethane	1365	215	-58.0	-59.2	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-01-64-53-LIA	6.64	1.98	Litz	Polyurethane	1750	280	-54.0	-58.0	-	5/44 Litz, 50.8 mm length	Axial Design
PT-C-01-64-53-SIA	6.64	1.98	Solid	Polyurethane	1750	280	-54.0	-58.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-01-90-54-SIA	6.64	1.98	Solid	Polyurethane	3500	540	-49.1	-54.5	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-02-56-54-SNR	5.53	1.58	Solid	Polyurethane	1800	170	-61.0	-62.5	>4	40 AWG, Tinned, 3 mm length	Radial Design
PT-C-02-56-54-SNL	5.53	1.58	Solid	Polyurethane	1800	170	-61.0	-62.5	-	40 AWG, Tinned, 3 mm length	Axial In-Line Design
PT-C-03-65-54-SIA	6.20	2.01	Solid	Polyurethane	2500	350	-57.0	-59.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-04-60-54-SIA	5.10	1.93	Solid	Polyurethane	2500	330	-60.0	-61.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-40-52-SIA	7.60	1.67	Solid	Polyurethane	800	100	-55.5	-57.4	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-50-52-SIA	7.60	1.67	Solid	Polyurethane	1070	150	-55.0	-58.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-65-53-LIA	7.60	1.67	Litz	Polyurethane	1600	250	-50.0	-52.8	-	5/44 Litz, 50.8 mm length	Axial Design
PT-C-06-65-53-SIA	7.60	1.67	Solid	Polyurethane	1600	250	-50.0	-52.8	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-70-54-SIA	7.60	1.67	Solid	Polyurethane	2200	285	-56.0	-57.5	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-77-53-SIA	7.60	1.67	Solid	Polyurethane	2000	330	-49.2	-52.5	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-77-54-SIA	7.60	1.67	Solid	Polyurethane	2600	350	-49.7	-53.1	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-80-53-SIA	7.60	1.67	Solid	Polyurethane	2200	350	-50.0	-54.0	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-06-80-54-SIA	7.60	1.67	Solid	Polyurethane	2700	370	-49.6	-59.6	-	36 AWG, Insulated, 50.8 mm length	Axial Design
PT-C-07-50-56-SNR	6.60	1.20	Solid	Polyurethane	2200	115	-57.0	-63.0	>4	40 AWG, Tinned, 3 mm length	Radial Design
PT-C-08-60-56-SNL	5.40	1.60	Solid	Polyurethane	2870	184	-57.0	-63.0	>4	40 AWG, Tinned, 3 mm length	Axial In-Line Design
PT-C-08-60-56-SNR	5.40	1.60	Solid	Polyurethane	2870	184	-57.0	-63.0	>4	40 AWG, Tinned, 3 mm length	Radial Design

II bobbin styles

Dimensions (max.) shown in millimeters (inches in parentheses).

	L	W
[00]	5,20 (.205)	2,15 (.085)
[01]	6,64 (.261)	1,98 (.078)
[02]	5,53 (.218)	1,58 (.062)
[03]	6,20 (.244)	2,01 (.079)
[04]	5,10 (.201)	1,93 (.076)
[06]	7,60 (.299)	1,67 (.066)
[07]	6,60 (.260)	1,20 (.047)
[08]	5,40 (.213)	1,60 (.063)

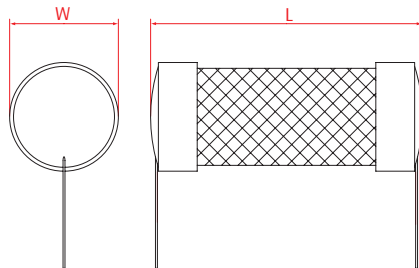
V lead type

- [L] LITZ
- [S] SOLID

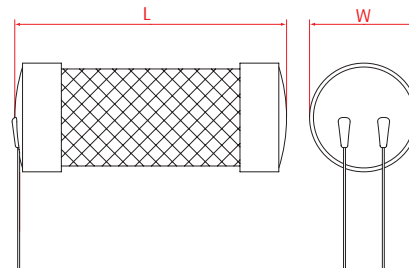
VI lead insulations

- [N] NON-INSULATED
- [I] INSULATED

VIII lead configurations



[A] AXIAL



[R] RADIAL

> ordering <

How to order— Using the chart below, determine your order number by finding the correct sequence of code numbers and/or letters as shown at right. Details on each parameter can be found within the brochure in the section with the corresponding roman numeral.

	model	I	II	III	IV	V	VI	VII
		exterior coating	bobbin style	number of turns	wire gage	lead type	lead insulation	lead configuration
PT	X	XX	XX	XX	X	X	X	

PARAMETER	YOUR CHOICE	GUIDELINES/NOTES
I exterior coating	C	Polyurethane coating
II bobbin style		
III number of turns		Specify in 100's of turns
IV wire gage		Specify AWG for coil
V lead type		
VI lead insulation		
VII lead configuration		