

# GT

## Glass tube transponder inductors

The GT Series of ferrite wound inductors for Glass Tube transponder exhibits both high technology and winding skills. Among the many different sizes available, Predan can offer coils with around a thousand turns of 25 $\mu$ m diameter selfbonding wire. Both low cost and high production capacity are its most important features. The values and sizes shown in this data sheet are the most commonly ordered by our customers but we can customise your coil.

Production of these delicate components is carefully controlled by SPC Quality programs, reinforcing the reliability of the component.

### Features

- Low cost
- Delivered in 200 Pcs Polystyrene trays
- Many different sizes and values available from stock.
- Up to 3% tolerance available.
- High Q

### Electrical specification

P/N	L (mH)	ToI.	C (pF)	Q	SRF (kHz)	RD (cm)
GT-XXXX-800J	8.00	±5%	200	>25	>350	75
GT-XXXX-736J	7.36	±5%	220	>25	>350	75
GT-XXXX-720J	7.20	±5%	225	>25	>350	74
GT-XXXX-600J	6.00	±5%	270	>25	>400	71
GT-XXXX-488J	4.88	±5%	330	>25	>400	68
GT-XXXX-405J	4.05	±5%	400	>22	>400	65
GT-XXXX-344J	3.44	±5%	470	>20	>400	59
GT-XXXX-289J	2.89	±5%	560	>20	>600	52
GT-XXXX-238J	2.38	±5%	680	>20	>1000	45
GT-XXXX-197J	1.97	±5%	820	>20	>1000	43

Operating freq: 125KHz.

SRF: Self-resonant frequency of the coil.

C: Capacitor for tuning circuit (125 khz)

Contact us for other values or tolerance

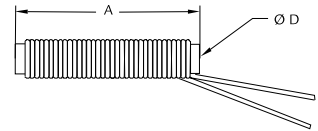
### Absolute maximum ratings

Parameters	Symbol	Value	Unit
Operating temperature	Tamb	-40 to +85	°C
Storage temperature range	Tstg	-40 to +125	°C
Magnetic field strength at 125 KHz	Hpp	1000	A/m
Maximum DC current	Icoil	10	mA
Minimum AC current	Icoil pp	20	mA

### Electrical and Magnetic Characteristics

Parameters	Conditions	Symbol	Min.	Typ.	Max.	Unit
Quality Factor	RT, 125KHz, 1V	Q	13	17	21	-
Minimum magnetic field strength	@ fres	Hopt		6		A/m
Resonance frequency deviation	T=-40 to +85°C	Dfres	-1		+1	%

### Dimensions



#### Outer dimensions (mm)

Dimension code XXXXX	A	D
04815	4.8	1.5
04807	4.8	0.75
06010	6.0	1.0
06510	6.5	1.0
07510	7.5	1.0
08010	8.0	1.0
11010	11.0	1.0
10015	10.0	1.5
12020	12.0	2.0
15030	15.0	3.0
20030	20.0	3.0

Contact us for other dimensions or shapes

Replace the dimension code in P/N to order