

# GT

## Glass tube transponder inductors

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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 25m 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) | Tol. | 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      |

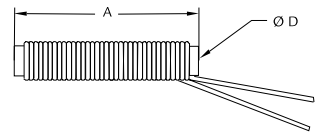
Operating freq: 125KHz.

SRF: Self-resonant frequency of the coil.

C: Capacitor for tuning circuit (125 khz)

Contact us for other values or tolerance

### Dimensions



Outer dimensions (mm)

| Dimension code<br>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

### 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   |      |      |      |      |
| Resonance frequency deviation   | T=-40 to +85°C | Dfres  | -1   |      |      |      |

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