

## Wireless Charging Transmitter Coil / Shield



### LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

### FEATURES

- Operating temperature: -40 °C to +105 °C
- Specialized shield coating offers superior environmental protection and moisture resistance in high humidity conditions up to 90 % RH
- Silk covered litz wire offers anti-scratching, improved insulation, and protection against wire deformation while reducing electrical skin effect and proximity losses
- Iron core shield achieves excellent saturation current rating
- Round form factor
- Qi standard compliant
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

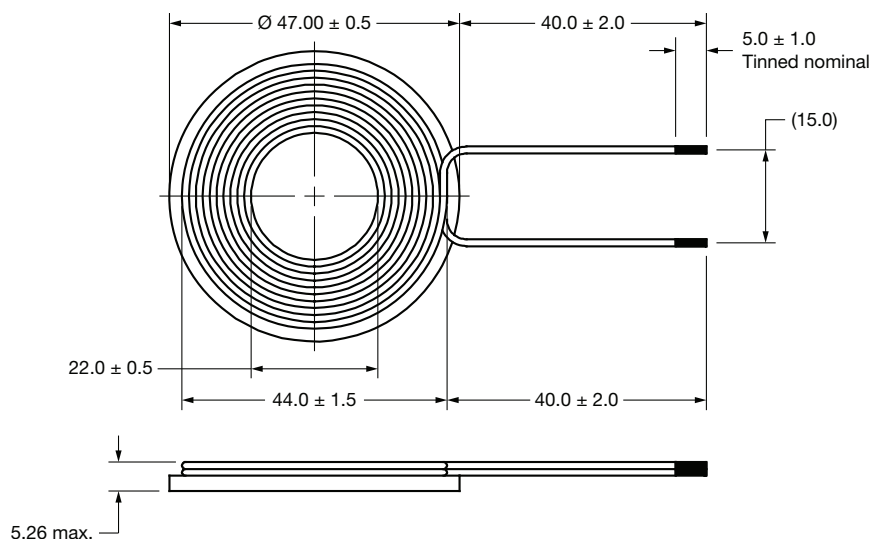
### STANDARD ELECTRICAL SPECIFICATIONS With Test Coil

| $L_0$ INDUCTANCE<br>± 5 % AT 200 kHz, 0.25 V, 0 A<br>( $\mu$ H) | Q<br>AT 200 kHz<br>TYP. | DCR ± 5 %<br>AT 25 °C<br>(m $\Omega$ ) | $I_{RMS}^{(1)}$<br>(A) | $I_{SAT}^{(2)}$<br>(A) |
|-----------------------------------------------------------------|-------------------------|----------------------------------------|------------------------|------------------------|
| 24                                                              | 200                     | 75                                     | 6                      | 20                     |

#### Notes

- Storage condition: -40 °C to +105 °C (on board); less than 40 °C and < 60 % RH (in component packaging)
- (1) DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- (2) DC current (A) that will cause  $L_0$  to drop approximately 20 %

### DIMENSIONS in millimeters





## DESCRIPTION

|                       |                             |                      |              |                                |
|-----------------------|-----------------------------|----------------------|--------------|--------------------------------|
| <b>IWTX-47R0DA-R1</b> | <b>24 <math>\mu</math>H</b> | <b>5 %</b>           | <b>EB</b>    | <b>e3</b>                      |
| MODEL                 | INDUCTANCE                  | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

## GLOBAL PART NUMBER

|          |          |          |          |             |          |          |          |                  |          |                |          |                  |          |          |          |          |              |
|----------|----------|----------|----------|-------------|----------|----------|----------|------------------|----------|----------------|----------|------------------|----------|----------|----------|----------|--------------|
| <b>I</b> | <b>W</b> | <b>T</b> | <b>X</b> | <b>4</b>    | <b>7</b> | <b>R</b> | <b>0</b> | <b>E</b>         | <b>B</b> | <b>E</b>       | <b>B</b> | <b>2</b>         | <b>4</b> | <b>0</b> | <b>J</b> | <b>R</b> | <b>1</b>     |
| MODEL    |          |          |          | SHIELD SIZE |          |          |          | SHIELD THICKNESS |          | LEAD (Pb)-FREE | PACKAGE  | INDUCTANCE VALUE |          |          | TOL.     | MATERIAL | LEAD CONFIG. |



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