

## 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
- 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)

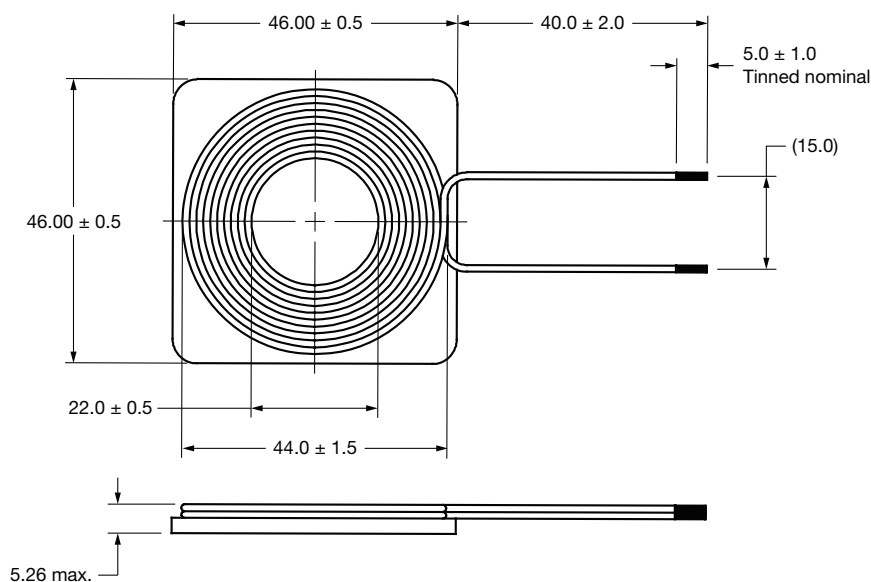
### STANDARD ELECTRICAL SPECIFICATIONS With Test Coil

| $L_0$ INDUCTANCE<br>$\pm 5\%$ AT 200 kHz, 0.25 V, 0 A<br>( $\mu$ H) | Q<br>AT 200 kHz<br>TYP. | DCR $\pm 5\%$<br>AT 25 °C<br>(m $\Omega$ ) | $I_{RMS}^{(1)}$<br>(A) | $I_{SAT}^{(2)}$<br>(A) |
|---------------------------------------------------------------------|-------------------------|--------------------------------------------|------------------------|------------------------|
| 24                                                                  | 185                     | 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

|                |            |                      |              |                                |
|----------------|------------|----------------------|--------------|--------------------------------|
| IWTX-4646DC-R1 | 24 $\mu$ H | 5 %                  | EB           | e3                             |
| MODEL          | INDUCTANCE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

### GLOBAL PART NUMBER

|       |   |   |   |             |   |   |   |                  |   |                |         |                  |   |   |      |          |              |
|-------|---|---|---|-------------|---|---|---|------------------|---|----------------|---------|------------------|---|---|------|----------|--------------|
| I     | W | T | X | 4           | 6 | 4 | 6 | D                | C | E              | B       | 2                | 4 | 0 | J    | R        | 1            |
| MODEL |   |   |   | SHIELD SIZE |   |   |   | SHIELD THICKNESS |   | LEAD (Pb)-FREE | PACKAGE | INDUCTANCE VALUE |   |   | TOL. | MATERIAL | LEAD CONFIG. |



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