

## Wireless Charging Transmitter Coil / Shield



### FEATURES

- Operating temperature: -40 °C to +85 °C
- Storage temperature: -40 °C to +85 °C
- $I_{RMS}$ : base on temperature rise up to 40 °C maximum
- Power rating: 5 W to 15 W
- Compliant to Qi standard A11 design
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

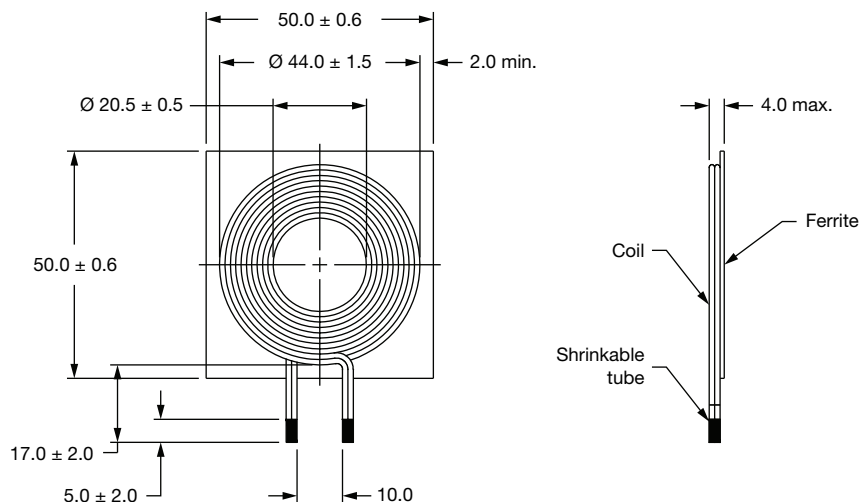
### STANDARD ELECTRICAL SPECIFICATIONS with Test Coil

| $L_0$ INDUCTANCE<br>+10 % AT 100 kHz,<br>1 V, 0 A<br>( $\mu$ H) | Q<br>AT 100 kHz<br>TYP. | DCR<br>AT 25 °C<br>TYP.<br>(m $\Omega$ ) | DCR<br>AT 25 °C<br>MAX.<br>(m $\Omega$ ) | HEAT RATING<br>CURRENT<br>DC<br>TYP.<br>(A) |
|-----------------------------------------------------------------|-------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|
| 6.3                                                             | 90.0                    | 18                                       | 25                                       | 10                                          |

#### Note

- This product is not designed, nor intended for use in automotive applications or life critical medical applications

### DIMENSIONS in millimeters



### DESCRIPTION

|                       |                              |                      |              |                                |
|-----------------------|------------------------------|----------------------|--------------|--------------------------------|
| <b>IWTX-5050DZ-F1</b> | <b>6.3 <math>\mu</math>H</b> | <b>10 %</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>5</b>    | <b>0</b> | <b>5</b> | <b>0</b> | <b>D</b>         | <b>Z</b> | <b>E</b>       | <b>B</b> | <b>6</b> | <b>R</b> | <b>3</b>         | <b>K</b> | <b>F</b>                   | <b>1</b> |
| MODEL    |          |          |          | SHIELD SIZE |          |          |          | SHIELD THICKNESS |          | LEAD (Pb)-FREE |          | PACKAGE  |          | INDUCTANCE VALUE |          | TOL. MATERIAL LEAD CONFIG. |          |



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