

Wireless Charging Transmitter Coil / Shield with Environmental Protection



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



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

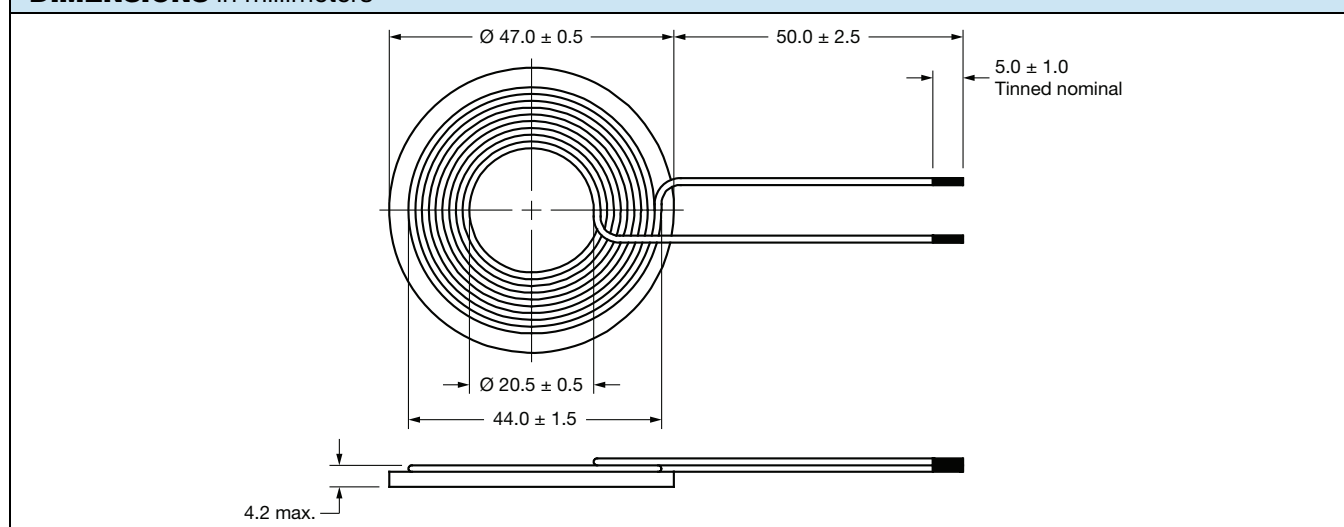
STANDARD ELECTRICAL SPECIFICATIONS With Test Coil

| L₀ INDUCTANCE ± 5 % AT 200 kHz, 0.25 V, 0 A (μH) | Q AT 200 kHz TYP. | DCR ± 5 % AT 25 °C (mΩ) | I_{RMS}⁽¹⁾ (A) | I_{SAT}⁽²⁾ (A) |
|--|--------------------------------|--------------------------------------|---|---|
| 6.3 | 190 | 40 | 7 | 22 |

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 ΔT of 40 °C
- (2) DC current (A) that will cause L₀ to drop approximately 20 %

DIMENSIONS in millimeters





DESCRIPTION

| | | | | |
|-----------------------|------------------------------|----------------------|--------------|--------------------------------|
| IWTX-47R0DA-R1 | 6.3 μH | 5 % | EB | e3 |
| MODEL | INDUCTANCE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER

| | | | | | | | | | | | | | | | | | |
|----------|----------|----------|----------|-------------|----------|----------|----------|------------------|----------|----------------|----------|------------------|----------|----------|----------|----------|--------------|
| I | W | T | X | 4 | 7 | R | 0 | D | A | E | B | 6 | R | 3 | J | R | 1 |
| MODEL | | | | SHIELD SIZE | | | | SHIELD THICKNESS | | LEAD (Pb)-FREE | PACKAGE | INDUCTANCE VALUE | | | TOL. | MATERIAL | LEAD CONFIG. |



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