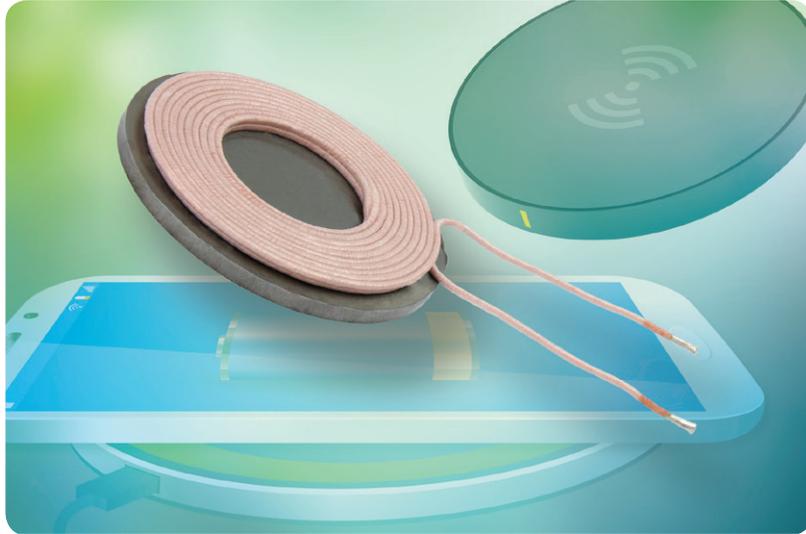


Wireless Charging Transmitter Coil / Shield



KEY BENEFITS

- WPC-compliant transmitter coil (Qi standard is the industry's leading platform)
- High-permeability shielding for wireless charging
- High-saturation powdered iron – not affected by permanent locating magnets
- Durable construction
- AEC-Q200-qualified

APPLICATIONS

- Wireless charging circuits in charging pads or customized solutions

RESOURCES

- Datasheet: IWTX-47R0BE-11 - www.vishay.com/doc?34412
- For technical questions contact magnetics@vishay.com
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

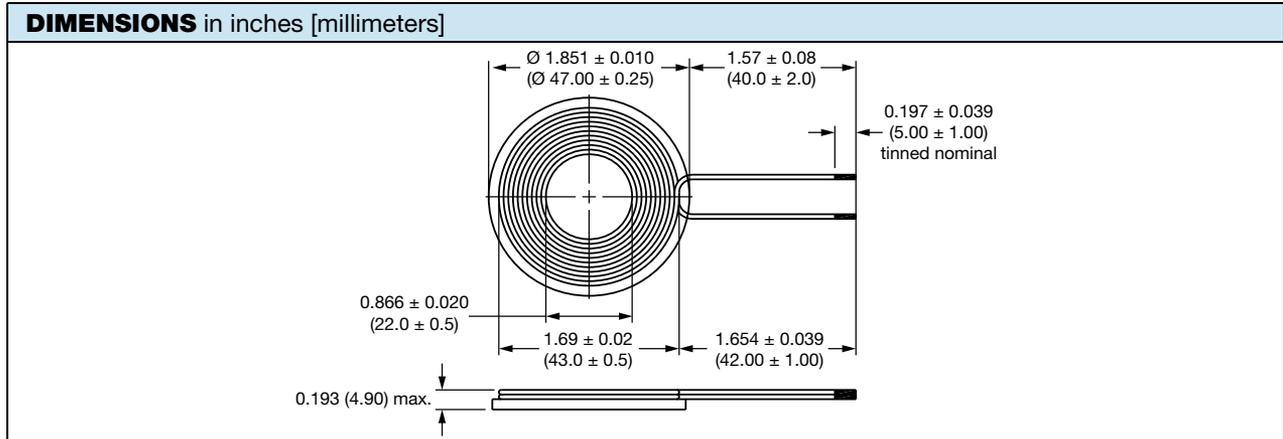


Wireless Charging Transmitter Coil / Shield

STANDARD ELECTRICAL SPECIFICATIONS with Test Coil						
L₀ INDUCTANCE +5 % / -10 % AT 200 kHz, 0.25 V, 0 A (μ H)	DCR ± 10 % AT 25 °C (m Ω)	Q AT 200 kHz (typ.)	SELF RESONANT FREQUENCY (MHz)	HEAT RATING CURRENT DC TYP. ⁽³⁾ (A)	SATURATION CURRENT DC TYP. ⁽⁴⁾ (A)	EFFICIENCY ⁽⁶⁾ (%)
24	71	200	7	6	20	> 70

Notes

- (1) All test data is referenced to 25 °C ambient.
- (2) Operating Temperature Range -55 °C to +155 °C.
- (3) DC current (A) that will cause an approximate ΔT of 40 °C.
- (4) DC current (A) that will cause L₀ to drop approximately 20 %.
- (5) The part temperature (ambient + temp rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- (6) When tested using BQ Tesla 500210 Transmitter Chipset, BQ51013 Receiver Chipset and IWAS-4832FF-50 as receiver coil with 2.7 mm spacing. Testing performed per WPC guidelines.



DESCRIPTION			
IWTX-47R0BE-11	10 %	EB	e3
MODEL	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER																	
I	W	T	X	4	7	R	0	B	E	E	B	2	4	0	K	1	1
MODEL				SHIELD SIZE			SHIELD THICKNESS		LEAD (Pb)-FREE	PACKAGE	INDUCTANCE VALUE			TOL.	MATERIAL	LEAD CONFIG.	

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