

Wireless Charging Transmitter Coil/Shield



FEATURES

- Wireless charging transmitter coil
- High permeability shielding for wireless charging
- High saturation powdered iron - not affected by permanent locating magnets
- Durable construction
- AEC-Q200 testing pending
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


**RoHS
COMPLIANT**

COIL DESCRIPTION			
TURNS	MATERIAL	LEAD LENGTH	TINNED LENGTH
2 layers 10 turns each	26 x 40 AWG, (0.08 mm diameter)	40 mm	5 mm

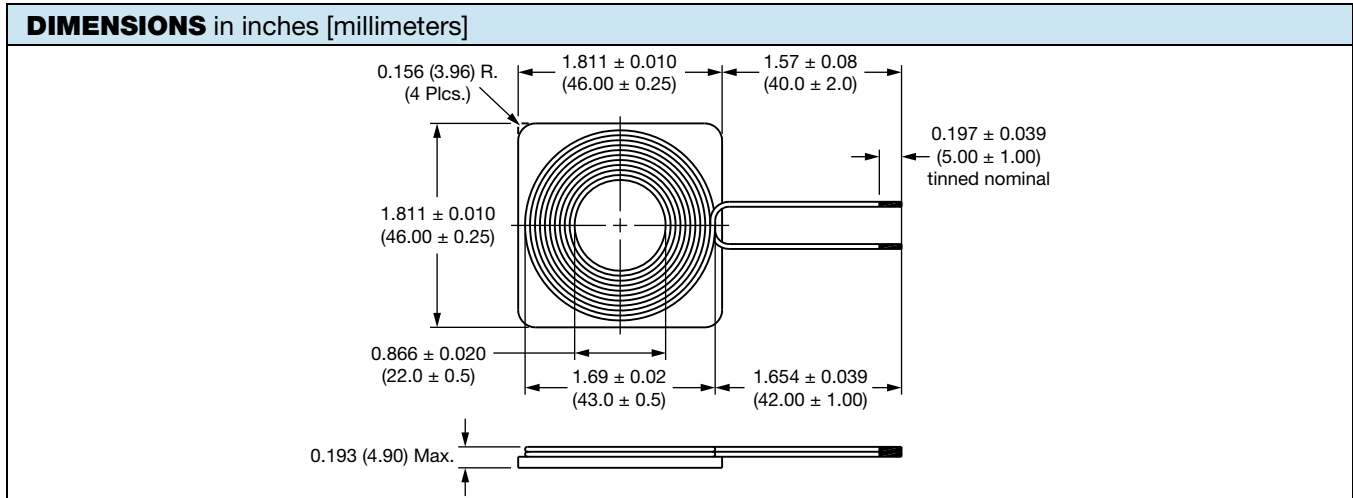
SHIELD MATERIAL CHARACTERISTICS

- Permeability: approximately 24
- Resistivity: > 10 MΩ at 100 V
- Core loss: 4000 mW/cc at 500 gauss, 250 kHz
- Magnetic saturation: 50 % at 4000 gauss (to 350 O_e)

STANDARD ELECTRICAL SPECIFICATIONS with Test Coil						
L ₀ INDUCTANCE ± 5 % AT 200 kHz, 0.25 V, 0 A (μH)	DCR ± 10 % AT 25 °C (mΩ)	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	185	7	6	20	> 70

Notes

- (1) All test data is referenced to 25 °C ambient.
- (2) Operating Temperature Range - 55 °C to +105 °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 105 °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 500110 Transmitter Chipset, BQ51013 Receiver Chipset and IWAS-4832FF-50 as receiver coil with 2.7 mm spacing. Testing performed per WPC guidelines.



DESCRIPTION			
IWTX-4646BE-50	5 %	EB	e3
MODEL	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER																	
I	W	T	X	4	6	4	6	B	E	E	B	2	4	0	J	5	0
MODEL				SHIELD SIZE				SHIELD THICKNESS		LEAD (Pb)-FREE	PACKAGE	INDUCTANCE VALUE			TOL.	MATERIAL	LEAD CONFIG.



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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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