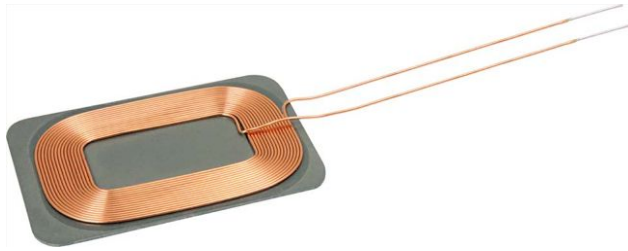




**THE DATASHEET OF  
IWAS3827ECEB100J50**



## Wireless Charging Receiving Coil/Shield



### FEATURES

- Wireless charging receiving coil
- For Rx applications up to 10 W
- Optimized for 5 V charging circuitry
- High permeability shielding for wireless charging receiving coils
- Blocks charging flux from sensitive components or batteries
- High saturation powdered iron - not affected by permanent locating magnets
- Durable construction
- 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 $\pm 5\%$ AT 200 kHz, 0.25 V, 0 A ( $\mu\text{H}$ )	DCR AT 25 °C $\pm 5\%$ (m $\Omega$ )	EFFICIENCY (%)	Q AT 200 kHz (typ.)
10.7	183	> 70	30

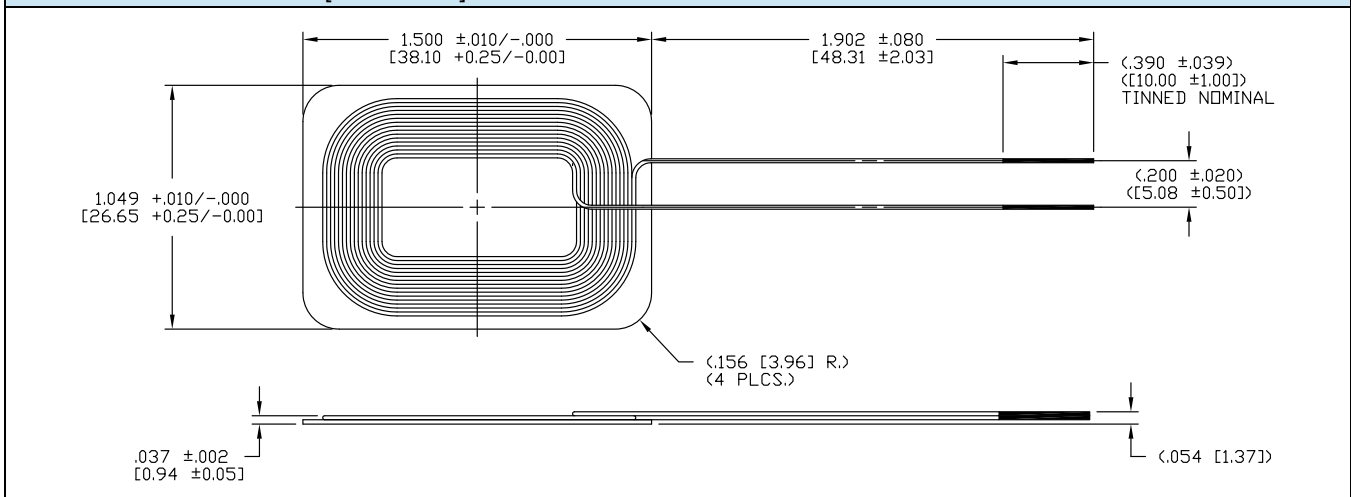
### COIL DESCRIPTION

TURNS	DIAMETER NOM.	LEAD LENGTH	TINNED LENGTH
15	26 AWG, 0.43 mm	50 mm	10 mm

### SHIELD MATERIAL CHARACTERISTICS

- Permeability: approximately 24
- Resistivity: > 10 M $\Omega$  at 100 V
- Core loss: 4000 mW/cc at 500 gauss, 250 kHz
- Magnetic saturation: 50 % at 4000 gauss (to 350 O<sub>e</sub>)

### DIMENSIONS in inches [millimeters]



### DESCRIPTION

IWAS-3827EC-50	5 %	EB	e3
MODEL	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

### GLOBAL PART NUMBER

I	W	A	S	3	8	2	7	E	C	E	B	1	0	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.**

**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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 [Vishay Information](#)

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-  Alternative Solution
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