



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Inductors, Epoxy Conformal Coated, Axial Leaded



### ELECTRICAL SPECIFICATIONS

**Inductance Range:** 0.27  $\mu$ H to 1000  $\mu$ H

**Inductance Tolerance:**  $\pm 10\%$  from 0.1  $\mu$ H to 1000  $\mu$ H standard,  $\pm 5\%$  optional

**Operating Temperature Range:** -20  $^{\circ}$ C to +105  $^{\circ}$ C

**Dielectric Strength:** 250  $V_{RMS}$

### MECHANICAL SPECIFICATIONS

**Terminal Strength:** Pull = 5 pounds, twist = 360  $^{\circ}$ C x 3

**Protection:** Epoxy uniform roll coated

**Leads:** Tinned copper

### ENVIRONMENTAL SPECIFICATIONS

**Maximum Temperature Rise:** + 20  $^{\circ}$ C

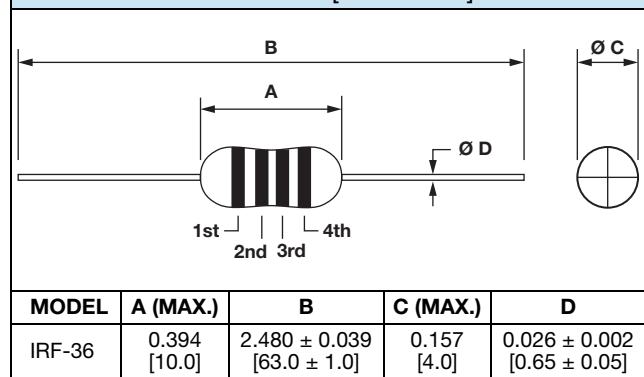
### FEATURES

- High performance ferrite core is used in this epoxy conformally coated choke which allows for inductance values to 1000  $\mu$ H
- Axial lead type, small lightweight design
- Special magnetic core structure contributes to high Q and self-resonant frequencies
- Treated with epoxy resin coating for humidity resistance to ensure long life
- Heat resistant adhesives and special structural design for effective open circuit measurement
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

### DIMENSIONS in inches [millimeters]



### STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. ( $\mu$ H)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. ( $\Omega$ )	RATED DC CURRENT (mA)
IRF-36	0.27	$\pm 20\%$	25	25.2	250	0.24	1320
IRF-36	0.33	$\pm 20\%$	25	25.2	240	0.28	1280
IRF-36	0.39	$\pm 20\%$	25	25.2	230	0.32	1200
IRF-36	0.47	$\pm 20\%$	25	25.2	220	0.36	1150
IRF-36	0.56	$\pm 20\%$	25	25.2	215	0.41	1100
IRF-36	0.68	$\pm 20\%$	25	25.2	210	0.47	1030
IRF-36	0.82	$\pm 20\%$	45	25.2	172	0.24	980
IRF-36	1.0	$\pm 5\%, \pm 10\%$	45	25.2	140	0.24	920
IRF-36	1.2	$\pm 5\%, \pm 10\%$	50	7.96	140	0.27	880
IRF-36	1.5	$\pm 5\%, \pm 10\%$	50	7.96	131	0.30	830
IRF-36	1.8	$\pm 5\%, \pm 10\%$	55	7.96	121	0.32	790
IRF-36	2.2	$\pm 5\%, \pm 10\%$	55	7.96	110	0.35	750
IRF-36	2.7	$\pm 5\%, \pm 10\%$	60	7.96	100	0.35	720
IRF-36	3.3	$\pm 5\%, \pm 10\%$	65	7.96	94	0.35	670
IRF-36	3.9	$\pm 5\%, \pm 10\%$	65	7.96	86	0.37	640
IRF-36	4.7	$\pm 5\%, \pm 10\%$	70	7.96	80	0.39	620
IRF-36	5.6	$\pm 5\%, \pm 10\%$	70	7.96	74	0.43	590
IRF-36	6.8	$\pm 5\%, \pm 10\%$	75	7.96	68	0.48	550
IRF-36	8.2	$\pm 5\%, \pm 10\%$	70	7.96	53	0.52	530
IRF-36	10	$\pm 5\%, \pm 10\%$	70	7.96	45	0.58	500
IRF-36	12	$\pm 5\%, \pm 10\%$	70	2.52	34	0.63	480
IRF-36	15	$\pm 5\%, \pm 10\%$	70	2.52	20	0.72	460
IRF-36	18	$\pm 5\%, \pm 10\%$	65	2.52	14	0.77	430
IRF-36	22	$\pm 5\%, \pm 10\%$	40	2.52	9.9	0.84	410
IRF-36	27	$\pm 5\%, \pm 10\%$	55	2.52	7.6	0.94	390



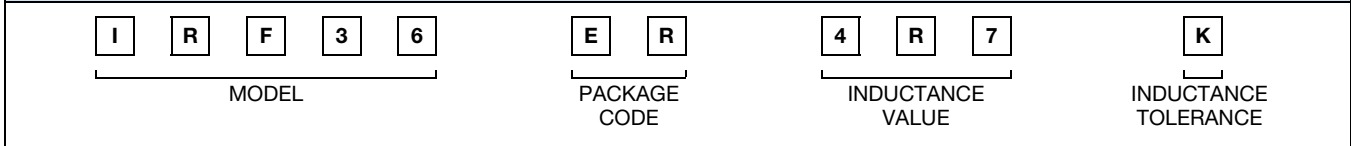
**STANDARD ELECTRICAL SPECIFICATIONS**

MODEL	IND. (μH)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
IRF-36	33	± 5 %, ± 10 %	55	2.52	6.3	1.03	370
IRF-36	39	± 5 %, ± 10 %	50	2.52	6.3	1.12	350
IRF-36	47	± 5 %, ± 10 %	45	2.52	6.3	1.22	340
IRF-36	56	± 5 %, ± 10 %	40	2.52	6.2	1.34	320
IRF-36	68	± 5 %, ± 10 %	40	2.52	5.7	1.47	306
IRF-36	82	± 5 %, ± 10 %	35	2.52	5.3	1.62	290
IRF-36	100	± 5 %, ± 10 %	30	2.52	4.8	1.80	275
IRF-36	120	± 5 %, ± 10 %	70	0.796	3.8	3.7	185
IRF-36	150	± 5 %, ± 10 %	70	0.796	3.5	4.2	175
IRF-36	180	± 5 %, ± 10 %	70	0.796	3.3	4.6	165
IRF-36	220	± 5 %, ± 10 %	70	0.796	3.0	5.1	155
IRF-36	270	± 5 %, ± 10 %	65	0.796	2.8	5.8	146
IRF-36	330	± 5 %, ± 10 %	65	0.796	2.6	6.4	137
IRF-36	390	± 5 %, ± 10 %	65	0.796	2.4	7.0	133
IRF-36	470	± 5 %, ± 10 %	60	0.796	2.25	7.7	126
IRF-36	560	± 5 %, ± 10 %	60	0.796	2.10	8.5	120
IRF-36	680	± 5 %, ± 10 %	55	0.796	1.95	9.4	113
IRF-36	820	± 5 %, ± 10 %	55	0.796	1.85	12.0	100
IRF-36	1000	± 5 %, ± 10 %	50	0.796	1.40	17.4	100

**ORDERING INFORMATION**

IRF-36	4.7 μH	± 10 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**





## Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.