

IRF36ER1R8K Datasheet



DiGi Electronics Part Number

Manufacturer

Manufacturer Product Number

Description

Detailed Description

IRF36ER1R8K-DG

Vishay Dale

IRF36ER1R8K

FIXED IND 1.8UH 790MA 320MOHM TH

1.8 µH Unshielded Inductor 790 mA 320mOhm Max Axial

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Purchase and inquiry

Manufacturer Product Number:

IRF36ER1R8K

Series:

IRF-36

Manufacturer:

Vishay Dale



IRF-36

Vishay Dale

Inductors, Epoxy Conformal Coated, Axial Leaded

FEATURES

• High performance ferrite core is used in this epoxy conformally coated choke which allows for inductance values to $1000 \ \mu H$



RoHS COMPLIANT

- 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 <u>www.vishay.com/doc?99912</u>



ELECTRICAL SPECIFICATIONS Inductance Range: 0.27 μH to 1000 μH

Inductance Tolerance: \pm 10 % from 0.1 μH to 1000 μH standard, \pm 5 % optional

Operating Temperature Range: -20 °C to +105 °C

Dielectric Strength: 250 V_{RMS}

MECHANICAL SPECIFICATIONS

Terminal Strength: Pull = 5 pounds, twist = 360 °C x 3 Protection: Epoxy uniform roll coated Leads: Tinned copper

ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: + 20 °C

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IRF-36 1.8 ± 5 %, ± 10 % 55 7.96 121 0.32 790	
IRF-36 2.2 ± 5 %, ± 10 % 55 7.96 110 0.35 750	
IRF-36 2.7 ± 5 %, ± 10 % 60 7.96 100 0.35 720	
IRF-36 3.3 ± 5 %, ± 10 % 65 7.96 94 0.35 670	
IRF-36 3.9 ± 5 %, ± 10 % 65 7.96 86 0.37 640	
IRF-36 4.7 ± 5 %, ± 10 % 70 7.96 80 0.39 620	
IRF-36 5.6 ± 5 %, ± 10 % 70 7.96 74 0.43 590	
IRF-36 6.8 ± 5 %, ± 10 % 75 7.96 68 0.48 550	
IRF-36 8.2 ± 5 %, ± 10 % 70 7.96 53 0.52 530	
IRF-36 10 ± 5 %, ± 10 % 70 7.96 45 0.58 500	
IRF-36 12 ± 5 %, ± 10 % 70 2.52 34 0.63 480	
IRF-36 15 ± 5 %, ± 10 % 70 2.52 20 0.72 460	
IRF-36 18 ± 5 %, ± 10 % 65 2.52 14 0.77 430	
IRF-36 22 ± 5 %, ± 10 % 40 2.52 9.9 0.84 410	
IRF-36 27 ± 5 %, ± 10 % 55 2.52 7.6 0.94 390	

Revision: 25-May-16

Document Number: 34057

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Vishay Dale

STANDA	DARD 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

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

GLOBAL PART NUMBER			
I R F 3 6 MODEL	E R PACKAGE CODE	4 R 7 INDUCTANCE VALUE	



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Revision: 01-Jan-2025

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