

IRF36ER220K Datasheet



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DiGi Electronics Part Number IRF36ER220K-DG

Manufacturer Vishay Dale

Manufacturer Product Number IRF36ER220K

Description FIXED IND 22UH 410MA 840 MOHM TH

Detailed Description 22 μH Unshielded Inductor 410 mA 840mOhm Max

Axial



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:	
IRF36ER220K	Vishay Dale	
Series:		
IDE 26		



www.vishay.com

Vishay Dale

Inductors, Epoxy Conformal Coated, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance Range: 0.27 μH to 1000 μH

Inductance Tolerance: $\pm~10~\%$ from 0.1 μH to 1000 μH

standard, ± 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

FEATURES

 High performance ferrite core is used in this epoxy conformally coated choke which allows for inductance values to 1000 μH

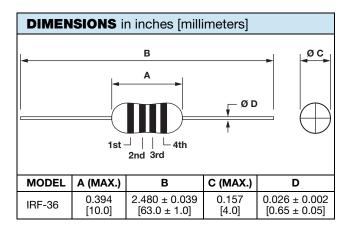


RoHS COMPLIANT HALOGEN

Axial lead type, small lightweight design

 Special magnetic core structure contributes to high Q and self-resonant frequencies

- to **FREE**
- 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>



STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	IND. (μH)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
IRF-36	0.27	± 20 %	25	25.2	250	0.24	1320
IRF-36	0.33	± 20 %	25	25.2	240	0.28	1280
IRF-36	0.39	± 20 %	25	25.2	230	0.32	1200
IRF-36	0.47	± 20 %	25	25.2	220	0.36	1150
IRF-36	0.56	± 20 %	25	25.2	215	0.41	1100
IRF-36	0.68	± 20 %	25	25.2	210	0.47	1030
IRF-36	0.82	± 20 %	45	25.2	172	0.24	980
IRF-36	1.0	± 5 %, ± 10 %	45	25.2	140	0.24	920
IRF-36	1.2	± 5 %, ± 10 %	50	7.96	140	0.27	880
IRF-36	1.5	± 5 %, ± 10 %	50	7.96	131	0.30	830
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





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

GLOBAL PART NUMBER			
I R F 3 6	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE



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