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 µH
- 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

Pb-free

RoHS COMPLIANT

HALOGEN FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.27 µH to 1000 µH

Inductance Tolerance: ± 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

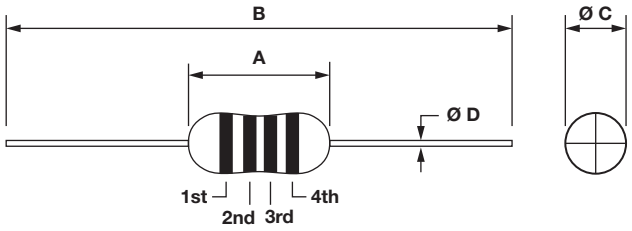
Protection: Epoxy uniform roll coated

Leads: Tinned copper

ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: + 20 °C

DIMENSIONS in inches [millimeters]



MODEL	A (MAX.)	B	C (MAX.)	D
IRF-36	0.394 [10.0]	2.480 ± 0.039 [63.0 ± 1.0]	0.157 [4.0]	0.026 ± 0.002 [0.65 ± 0.05]

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

For technical questions, contact: magnetics@vishay.com

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

GLOBAL PART NUMBER

I	R	F	3	6	E	R	4	R	7	K
MODEL					PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE

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