



Inductors, Subminiature, Shielded, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance Tolerance: $\pm 10\%$ on Q-meter

Dielectric Strength: 700 V_{RMS} at sea level

Operating Temperature: -55 °C to +125 °C

Self-Resonant Frequency: Minimum SRF measured with full length leads on grid-dip meter

Rating: Maximum current based on $\frac{1}{3}$ W dissipation

MECHANICAL SPECIFICATIONS

Terminal Strength: Meets 5 lb pull test

FEATURES

- Classification is grade 2, class B
- Inductance range is 0.10 μ H to 1000 μ H
- High inductance-to-size ratio
- 0.133" [3.38 mm] diameter by 0.335" [8.51 mm] length
- Subminiature shielded inductor
- Solves special problems in density circuit application
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



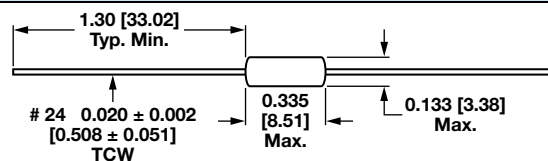
RoHS
COMPLIANT

DENSITY SPECIFICATIONS

Weight: 0.50 g maximum

Shielding: Less than 3 % coupling with two units mounted side by side at 1000 cycles

DIMENSIONS in inches [millimeters]



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μ H)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA) ⁽¹⁾	
IMS-2WWD-40	0.10	± 10	42	25	> 400	0.112	1720	> 1720	PHENOLIC
IMS-2WWD-40	0.12	± 10	42	25	> 400	0.126	1630	> 1630	
IMS-2WWD-40	0.15	± 10	42	25	> 400	0.138	1550	> 1550	
IMS-2WWD-40	0.18	± 10	42	25	366	0.165	1420	> 1420	
IMS-2WWD-40	0.22	± 10	42	25	331	0.198	1330	> 1330	
IMS-2WWD-40	0.27	± 10	42	25	298	0.220	1230	> 1230	
IMS-2WWD-40	0.33	± 10	42	25	288	0.258	1140	> 1140	
IMS-2WWD-40	0.39	± 10	42	25	271	0.292	1060	> 1060	
IMS-2WWD-40	0.47	± 10	41	25	247	0.360	960	> 960	
IMS-2WWD-40	0.56	± 10	39	25	236	0.397	915	> 915	
IMS-2WWD-40	0.68	± 10	36	25	216	0.472	840	> 840	
IMS-2WWD-40	0.82	± 10	35	25	200	0.638	720	> 720	
IMS-2WWD-40	1.0	± 10	42	25	136	0.208	1260	> 1260	IRON
IMS-2WWD-40	1.2	± 10	38	7.9	120	0.225	1210	> 1210	
IMS-2WWD-40	1.5	± 10	38	7.9	111	0.265	1120	> 1120	
IMS-2WWD-40	1.8	± 10	38	7.9	103	0.285	1080	> 1080	
IMS-2WWD-40	2.2	± 10	36	7.9	94	0.330	1000	> 1000	
IMS-2WWD-40	2.7	± 10	38	7.9	85	0.381	935	> 935	
IMS-2WWD-40	3.3	± 10	38	7.9	78	0.432	875	> 875	
IMS-2WWD-40	3.9	± 10	40	7.9	73	0.576	755	> 755	
IMS-2WWD-40	4.7	± 10	42	7.9	66	0.787	650	> 650	
IMS-2WWD-40	5.6	± 10	42	7.9	62	1.04	565	> 565	
IMS-2WWD-40	6.8	± 10	45	7.9	54	1.40	485	> 485	
IMS-2WWD-40	8.2	± 10	47	7.9	50	1.68	440	> 440	
IMS-2WWD-40	10	± 10	51	7.9	44	2.58	355	> 355	
IMS-2WWD-40	12	± 10	51	2.5	39	3.65	300	> 300	

Note

⁽¹⁾ Incremental current: The DC current required to cause a 5 % reduction in the nominal inductance value

**STANDARD ELECTRICAL SPECIFICATIONS**

MODEL	IND. (μ H)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA) ⁽¹⁾	FERRITE
IMS-2WWD-40	15	± 10	45	2.5	44	0.862	620	200	
IMS-2WWD-40	18	± 10	43	2.5	40	1.02	570	175	
IMS-2WWD-40	22	± 10	42	2.5	36	1.12	545	160	
IMS-2WWD-40	27	± 10	37	2.5	33	1.28	510	155	
IMS-2WWD-40	33	± 10	46	2.5	30	1.70	440	150	
IMS-2WWD-40	39	± 10	38	2.5	26	1.99	405	145	
IMS-2WWD-40	47	± 10	42	2.5	23	2.41	370	140	
IMS-2WWD-40	56	± 10	41	2.5	22	2.85	340	130	
IMS-2WWD-40	68	± 10	46	2.5	18	3.21	320	120	
IMS-2WWD-40	82	± 10	46	2.5	17	3.57	305	115	
IMS-2WWD-40	100	± 10	43	2.5	15	4.10	280	100	
IMS-2WWD-40	120	± 10	50	0.79	13	5.97	235	80	
IMS-2WWD-40	150	± 10	49	0.79	12	7.05	215	68	
IMS-2WWD-40	180	± 10	56	0.79	11	8.12	200	64	
IMS-2WWD-40	220	± 10	53	0.79	10	14.8	150	60	
IMS-2WWD-40	270	± 10	57	0.79	9	16.8	140	58	
IMS-2WWD-40	330	± 10	57	0.79	8.5	18.6	130	56	
IMS-2WWD-40	390	± 10	57	0.79	8	21.1	120	54	
IMS-2WWD-40	470	± 10	50	0.79	7	32.2	100	52	
IMS-2WWD-40	560	± 10	50	0.79	6	36.4	95	50	
IMS-2WWD-40	680	± 10	56	0.79	5.5	41.1	90	48	
IMS-2WWD-40	820	± 10	49	0.79	5	45.0	85	47	
IMS-2WWD-40	1000	± 10	49	0.79	4.5	52.0	80	45	

Note

⁽¹⁾ Incremental current: The DC current required to cause a 5 % reduction in the nominal inductance value

MARKING

- Color coded

ORDERING INFORMATION

IMS-2WWD-40	0.10 μH	10 %	ER	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	M	S	0	2	W	W	D	E	R	R	1	0	K	4	0
MODEL							PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE		SERIES	



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