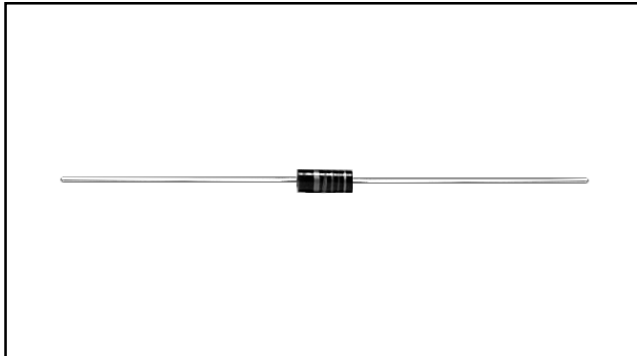




Inductors

Commercial, Subminiature, Molded, Shielded



FEATURES

- Classification is Grade 1, Class A.
- Ultra-reliable molded shielded inductor.
- Inductance range is .10 μ H to 10000 μ H.
- .136" [3.45mm] diameter by .335" [8.51mm] length.
- Molded epoxy envelope.
- Use of unique "T" lead construction on 15 μ H to 10000 μ H values assures exceptional reliability where fine wire sizes are used.
- Subminiature size for high density circuits and high inductance-to-size ratio.
- Utmost reliability, electrical performance and minimum coupling in high density packaging.

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: $\pm 10\%$ on Q-Meter at specified frequency.

Dielectric Strength: 700V RMS at sea level.

Operating Temperature: - 55°C to + 105°C.

Self-Resonant Frequency: Measured per MIL-C-15305.

Q: Measured on a Q-Meter at specified frequency.

Rating: Maximum based on 1/3 watt dissipation.

MECHANICAL SPECIFICATIONS

Terminal Strength: Meets five pound pull test; three 360° rotations in alternate directions per MIL-C-15305 (latest revision).

DENSITY SPECIFICATIONS

Weight: .50 gram maximum.

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

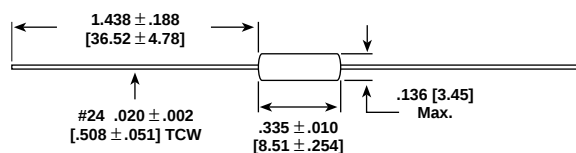
ENVIRONMENTAL SPECIFICATIONS

Moisture: Meets requirements of MIL-C-15305.

Vibration: High frequency, 10Hz to 2000Hz @ 20 g $\pm 10\%$ maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes.

Shock: 100 g, 6 ms.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. MIN. (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL* CURRENT (mA)	PHENOLIC
IMS-2SWWD-30	.10	$\pm 10\%$	42	25	480	.087	1038	> 1650	
IMS-2SWWD-30	.12	$\pm 10\%$	42	25	460	.090	1021	> 1630	
IMS-2SWWD-30	.15	$\pm 10\%$	42	25	400	.098	978	> 1550	
IMS-2SWWD-30	.18	$\pm 10\%$	42	25	360	.117	895	> 1420	
IMS-2SWWD-30	.22	$\pm 10\%$	42	25	340	.141	815	> 1330	
IMS-2SWWD-30	.27	$\pm 10\%$	42	25	320	.157	773	> 1230	
IMS-2SWWD-30	.33	$\pm 10\%$	42	25	295	.178	726	> 1140	
IMS-2SWWD-30	.39	$\pm 10\%$	42	25	275	.208	671	> 1060	
IMS-2SWWD-30	.47	$\pm 10\%$	41	25	250	.257	604	> 960	
IMS-2SWWD-30	.56	$\pm 10\%$	39	25	238	.283	576	> 915	
IMS-2SWWD-30	.68	$\pm 10\%$	36	25	224	.337	527	> 840	
IMS-2SWWD-30	.82	$\pm 10\%$	35	25	205	.470	447	> 720	

*Incremental Current: The DC current required to cause a 5% reduction in the nominal inductance value.

Model IMS-2SWWD-30

Vishay Dale



STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. MIN. (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL* CURRENT (mA)
IMS-2SWWD-30	1.0	$\pm 10\%$	38	25	135	.170	678	> 1180
IMS-2SWWD-30	1.2	$\pm 10\%$	38	7.9	124	.177	664	> 1150
IMS-2SWWD-30	1.5	$\pm 10\%$	38	7.9	114	.212	607	> 1050
IMS-2SWWD-30	1.8	$\pm 10\%$	38	7.9	105	.242	568	> 990
IMS-2SWWD-30	2.2	$\pm 10\%$	38	7.9	95	.263	545	> 950
IMS-2SWWD-30	2.7	$\pm 10\%$	38	7.9	85	.300	510	> 880
IMS-2SWWD-30	3.3	$\pm 10\%$	38	7.9	78	.345	476	> 820
IMS-2SWWD-30	3.9	$\pm 10\%$	42	7.9	74	.411	436	> 755
IMS-2SWWD-30	4.7	$\pm 10\%$	42	7.9	68	.562	373	> 650
IMS-2SWWD-30	5.6	$\pm 10\%$	42	7.9	62	.742	324	> 565
IMS-2SWWD-30	6.8	$\pm 10\%$	45	7.9	55	1.0	280	> 485
IMS-2SWWD-30	8.2	$\pm 10\%$	47	7.9	51	1.20	255	> 440
IMS-2SWWD-30	10	$\pm 10\%$	51	7.9	45	1.84	206	> 335
IMS-2SWWD-30	12	$\pm 10\%$	51	2.5	41	2.60	173	> 300
IMS-2SWWD-30	15	$\pm 10\%$	35	2.5	48	.635	314	200
IMS-2SWWD-30	18	$\pm 10\%$	35	2.5	44	.728	293	175
IMS-2SWWD-30	22	$\pm 10\%$	35	2.5	37	.825	275	160
IMS-2SWWD-30	27	$\pm 10\%$	35	2.5	32	.950	256	155
IMS-2SWWD-30	33	$\pm 10\%$	36	2.5	30	1.26	223	150
IMS-2SWWD-30	39	$\pm 10\%$	36	2.5	27	1.42	210	145
IMS-2SWWD-30	47	$\pm 10\%$	36	2.5	23	1.72	191	140
IMS-2SWWD-30	56	$\pm 10\%$	38	2.5	21	2.03	175	130
IMS-2SWWD-30	68	$\pm 10\%$	38	2.5	18.5	2.29	165	120
IMS-2SWWD-30	82	$\pm 10\%$	36	2.5	17	2.55	157	115
IMS-2SWWD-30	100	$\pm 10\%$	36	2.5	15.5	2.92	146	100
IMS-2SWWD-30	120	$\pm 10\%$	43	.79	14.5	3.30	154	80
IMS-2SWWD-30	150	$\pm 10\%$	43	.79	13.0	4.30	147	68
IMS-2SWWD-30	180	$\pm 10\%$	43	.79	11.5	5.40	120	64
IMS-2SWWD-30	220	$\pm 10\%$	45	.79	10.0	6.65	108	60
IMS-2SWWD-30	270	$\pm 10\%$	47	.79	9.5	7.6	101	58
IMS-2SWWD-30	330	$\pm 10\%$	47	.79	8.5	8.5	96	56
IMS-2SWWD-30	390	$\pm 10\%$	47	.79	8.0	10.0	88	54
IMS-2SWWD-30	470	$\pm 10\%$	47	.79	7.2	13.5	76	52
IMS-2SWWD-30	560	$\pm 10\%$	51	.79	6.4	14.5	73	50
IMS-2SWWD-30	680	$\pm 10\%$	51	.79	5.8	6.0	70	48
IMS-2SWWD-30	820	$\pm 10\%$	48	.79	5.3	19.0	64	47
IMS-2SWWD-30	1000	$\pm 10\%$	48	.79	4.8	21.5	60	45
IMS-2SWWD-30	1200	$\pm 10\%$	45	.25	2.9	23	52	40
IMS-2SWWD-30	1500	$\pm 10\%$	45	.25	2.8	30	46	35
IMS-2SWWD-30	1800	$\pm 10\%$	45	.25	2.6	33	44	32

IRON

FERRITE "T" LEAD

*Incremental Current: The DC current required to cause a 5% reduction in the nominal inductance value.

PART MARKING
— Color coded per MIL-C-15305 (latest revision)

HOW TO ORDER		
IMS-2SWWD-30 MODEL	1μH INDUCTANCE VALUE	± 10% INDUCTANCE TOLERANCE