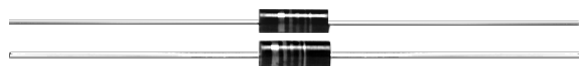


Inductors

Commercial, Miniature, Molded, Shielded

FEATURES

- Ultra-reliable molded shielded miniature RF inductor.
- Epoxy molded envelope and shielding.
- Offers reliability, electrical performance and minimum coupling in high density packaging.



ELECTRICAL SPECIFICATIONS

Inductance Range: 0.1μH to 100,000μH.

Inductance Tolerance: ± 10%.

Dielectric Strength: 700VRMS at sea level.

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

Self-Resonant Frequency: Measured per MIL-PRF-15305 (latest revision).

Q: Measured on a Q-Meter.

Maximum Current: Based on temperature rise not to exceed 35°C at + 90°C ambient.

MECHANICAL SPECIFICATIONS

Terminal Strength: Meets 5 pound pull test; three 360° rotations in alternate directions when tested per MIL-PRF-15305 (latest revision).

DENSITY SPECIFICATIONS

Weight: 0.75 gram maximum.

Shielding: At the test frequency, two units assembled side by side exhibit less than 3% coupling.

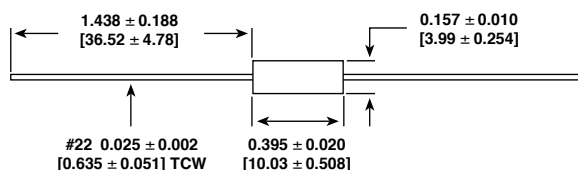
ENVIRONMENTAL SPECIFICATIONS

Moisture: Per MIL-STD-202, Method 106.

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

Shock: 100g, 6ms.

DIMENSIONS in inches [millimeters]



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μH)	TOL.	Q MIN.	TEST FREQ. (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL* CURRENT (mA)	PHENOLIC CORE
IMS-5SWD-65	0.10	± 10%	50	25	250	0.025	2900	2900	
IMS-5SWD-65	0.12	± 10%	51	25	250	0.034	2800	2800	
IMS-5SWD-65	0.15	± 10%	51	25	250	0.037	2750	2750	
IMS-5SWD-65	0.18	± 10%	50	25	250	0.047	2200	2200	
IMS-5SWD-65	0.22	± 10%	49	25	250	0.067	1700	1700	
IMS-5SWD-65	0.27	± 10%	47	25	250	0.11	1500	1500	
IMS-5SWD-65	0.33	± 10%	46	25	250	0.13	1300	1300	
IMS-5SWD-65	0.39	± 10%	44	25	250	0.18	1100	1100	
IMS-5SWD-65	0.47	± 10%	44	25	235	0.25	1000	1000	
IMS-5SWD-65	0.56	± 10%	43	25	210	0.33	900	900	
IMS-5SWD- 65	0.68	± 10%	42	25	190	0.45	750	750	
IMS-5SWD-65	0.82	± 10%	40	25	180	0.59	600	600	

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

STANDARD ELECTRICAL SPECIFICATIONS									
MODEL	IND. (μH)	TOL.	Q MIN.	TEST FREQ. (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL* CURRENT (mA)	
IMS-5SWD-65	1.0	± 10%	47	25	140	0.07	1900	1900	IRON CORE
IMS-5SWD-65	1.2	± 10%	46	7.9	130	0.093	1600	1600	
IMS-5SWD-65	1.5	± 10%	45	7.9	115	0.12	1300	1300	
IMS-5SWD-65	1.8	± 10%	43	7.9	105	0.14	1200	1200	
IMS-5SWD-65	2.2	± 10%	45	7.9	100	0.19	1100	1100	
IMS-5SWD-65	2.7	± 10%	46	7.9	92	0.28	950	950	
IMS-5SWD-65	3.3	± 10%	44	7.9	85	0.35	800	800	
IMS-5SWD-65	3.9	± 10%	44	7.9	75	0.40	750	750	
IMS-5SWD-65	4.7	± 10%	44	7.9	70	0.55	650	650	
IMS-5SWD-65	5.6	± 10%	47	7.9	65	0.72	550	550	
IMS-5SWD-65	6.8	± 10%	50	7.9	55	1.02	500	500	
IMS-5SWD-65	8.2	± 10%	50	7.9	50	1.32	475	475	
IMS-5SWD-65	10	± 10%	49	7.9	46	1.62	450	450	
IMS-5SWD-65	12	± 10%	55	2.5	44	2.0	400	400	
IMS-5SWD-65	15	± 10%	44	2.5	49	0.80	620	250	FERRITE CORE
IMS-5SWD-65	18	± 10%	45	2.5	45	0.89	610	235	
IMS-5SWD-65	22	± 10%	46	2.5	41	0.96	600	220	
IMS-5SWD-65	27	± 10%	49	2.5	38	1.19	500	200	
IMS-5SWD-65	33	± 10%	45	2.5	34	1.37	490	190	
IMS-5SWD-65	39	± 10%	53	2.5	29	1.93	410	180	
IMS-5SWD-65	47	± 10%	52	2.5	27	2.11	400	175	
IMS-5SWD-65	56	± 10%	49	2.5	25	2.23	380	160	
IMS-5SWD-65	68	± 10%	51	2.5	21	2.70	370	150	
IMS-5SWD-65	82	± 10%	45	2.5	10.5	2.44	360	140	
IMS-5SWD-65	100	± 10%	52	2.5	10	3.12	325	120	
IMS-5SWD-65	120	± 10%	57	0.79	9.7	3.6	290	95	
IMS-5SWD-65	150	± 10%	56	0.79	8.5	4.1	275	90	
IMS-5SWD-65	180	± 10%	60	0.79	8.0	4.4	260	85	
IMS-5SWD-65	220	± 10%	58	0.79	7.5	5.0	250	80	
IMS-5SWD-65	270	± 10%	60	0.79	7.0	5.8	240	70	
IMS-5SWD-65	330	± 10%	54	0.79	6.5	6.4	225	65	
IMS-5SWD-65	390	± 10%	67	0.79	6.2	7.4	200	60	
IMS-5SWD-65	470	± 10%	60	0.79	5.7	9.5	180	58	
IMS-5SWD-65	560	± 10%	60	0.79	4.7	10.5	174	55	
IMS-5SWD-65	680	± 10%	60	0.79	4.5	11.8	168	50	
IMS-5SWD-65	820	± 10%	57	0.79	4.2	13.0	152	45	
IMS-5SWD-65	1000	± 10%	65	0.79	3.8	17.5	135	40	
IMS-5SWD-65	1200	± 10%	45	0.25	1.5	22.1	115	35	
IMS-5SWD-65	1500	± 10%	49	0.25	1.2	26.5	110	33	
IMS-5SWD-65	1800	± 10%	47	0.25	1.0	29.9	105	30	
IMS-5SWD-65	2200	± 10%	50	0.25	0.97	33.8	99	27	
IMS-5SWD-65	2700	± 10%	47	0.25	0.92	47.3	83	25	
IMS-5SWD-65	3300	± 10%	43	0.25	0.84	53.0	80	22	
IMS-5SWD-65	3900	± 10%	43	0.25	0.80	73.8	67	20	
IMS-5SWD-65	4700	± 10%	44	0.25	0.74	81.6	63	19	
IMS-5SWD-65	5600	± 10%	45	0.25	0.73	98.9	56	17	

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

MARKING	ORDERING INFORMATION		
— Color coded per MIL-PRF-15305	IMS-5SWD-65 MODEL	0.47 μ H INDUCTANCE VALUE	$\pm 10\%$ INDUCTANCE TOLERANCE