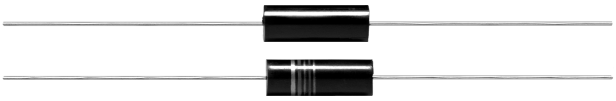
IM-10RFCL-12

Vishay Dale

Inductors

Commercial, Molded



FEATURES

- Inductance range is 1μH to 10,000μH.
- Proven reliability molded inductors.

STANDARD ELECTRICAL SPECIFICATIONS

MODEL*	IND. (μH)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	
IM-10RFCL-12	1.0	± 10%	130	15	136	0.03	4000	
IM-10RFCL-12	1.2	± 10%	130	15	124	0.03	4000	
IM-10RFCL-12	1.5	± 10%	130	10	112	0.03	4000	
IM-10RFCL-12	1.8	± 10%	130	10	100	0.03	4000	
IM-10RFCL-12	2.2	± 10%	130	10	92	0.04	3500	
IM-10RFCL-12	2.7	± 10%	100	10	82	0.04	3500	
IM-10RFCL-12	3.3	± 10%	100	7.9	72	0.04	3500	
IM-10RFCL-12	3.9	± 10%	80	7.9	68	0.05	3100	
IM-10RFCL-12	4.7	± 10%	75	7.9	64	0.05	3100	
IM-10RFCL-12	5.6	± 10%	65	7.9	58	0.06	3000	
IM-10RFCL-12	6.8	± 10%	65	7.9	52	0.06	3000	
IM-10RFCL-12	8.2	± 10%	65	7.9	46	0.11	2400	
IM-10RFCL-12	10	± 10%	75	5	40	0.15	1800	
IM-10RFCL-12	12	± 10%	75	5	36	0.23	1600	
IM-10RFCL-12	15	± 10%	75	5	32	0.3	1300	
IM-10RFCL-12	18	± 10%	75	5	29	0.4	1150	
IM-10RFCL-12	22	± 10%	75	2.5	26	0.5	1000	
IM-10RFCL-12	27	± 5%	70	2.5	24	0.6	900	
IM-10RFCL-12	33	± 5%	70	2.5	22	0.7	850	
IM-10RFCL-12	39	± 5%	70	2.5	21	1.1	720	
IM-10RFCL-12	47	± 5%	75	2.5	20	1.3	620	
IM-10RFCL-12	56	± 5%	80	2.5	18	1.8	540	
IM-10RFCL-12	68	± 5%	100	2.5	16	2.4	450	
IM-10RFCL-12	82	± 5%	100	2.5	14	2.8	425	
IM-10RFCL-12	100	± 5%	100	1.5	13	3.2	400	
IM-10RFCL-12	120	± 5%	100	1.5	12	4.8	360	
IM-10RFCL-12	150	± 5%	100	1	11	6.4	280	
IM-10RFCL-12	180	± 5%	95	1	10	9.5	240	
IM-10RFCL-12	220	± 5%	95	1	9	12	200	
IM-10RFCL-12	270	± 5%	70	1	7	13	195	
IM-10RFCL-12	330	± 5%	65	0.79	6	14	190	
IM-10RFCL-12	390	± 5%	65	0.79	5	15.5	180	
IM-10RFCL-12	470	± 5%	60	0.79	4	17	170	
IM-10RFCL-12	560	± 5%	75	0.50	3	18.5	165	
IM-10RFCL-12	680	± 5%	75	0.50	2.5	20	155	
IM-10RFCL-12	820	± 5%	75	0.50	2.0	22	150	
IM-10RFCL-12	1000	± 5%	75	0.50	1.9	24	145	
IM-10RFCL-12	1200	± 5%	75	0.50	1.7	27	137	
IM-10RFCL-12	1500	± 5%	75	0.40	1.5	29	130	
IM-10RFCL-12	1800	± 5%	65	0.40	1.4	32	125	
IM-10RFCL-12	2200	± 5%	65	0.25	1.2	35	120	
IM-10RFCL-12	2700	± 5%	65	0.25	1.0	40	112	
IM-10RFCL-12	3300	± 5%	65	0.25	0.95	45	105	
IM-10RFCL-12	3900	± 5%	65	0.25	0.80	49	100	
IM-10RFCL-12	4700	± 5%	65	0.25	0.75	53	95	
IM-10RFCL-12	5600	± 5%	65	0.25	0.70	60	90	
IM-10RFCL-12	6800	± 5%	65	0.25	0.60	67	85	
IM-10RFCL-12	8200	± 5%	65	0.25	0.50	75	82	
IM-10RFCL-12	10000	± 5%	65	0.15	0.45	80	80	

IRON CORE

*Model electricals and tolerances shown.

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: ± 10% on Q-Meter for 1μH to 22μH. ± 5% 1000 cps bridge for 27μH to 10,000μH.

NOTE: L and Q are not always tested at the same frequency. Inductance values tested on Q-Meter are tested at standard test frequencies.

Dielectric Strength: 700VRMS at sea level.

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

Self-Resonant Frequency: Minimum SRF measured with full length leads on Grid-Dip Meter.

Q: Measured on Q-Meter.

Rating: 1/2 watt dissipation for L Models.

MECHANICAL SPECIFICATIONS

Terminal Strength: Meets 5 pound pull test when tested per MIL-PRF-15305 (latest revision).

DENSITY SPECIFICATIONS

Weight: 4.1 grams maximum.

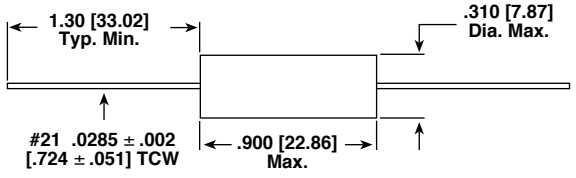
ENVIRONMENTAL SPECIFICATIONS

Moisture Resistance: Meets requirements of MIL-PRF-15305.

Shock Resistance: Meets requirements of MIL-PRF-15305.

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

DIMENSIONS in inches [millimeters]



MARKING

— Color coded

ORDERING INFORMATION

IM-10RFCL-12	1.0μH	± 10%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

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