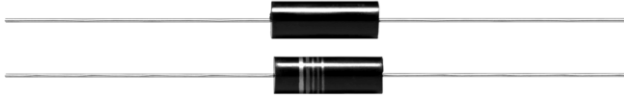


Inductors

Commercial, Molded



RoHS
COMPLIANT

FEATURES

- Inductance range is 1 μ H to 10 000 μ H
- Proven reliability molded inductors

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: $\pm 10\%$ on Q-Meter for 1 μ H to 22 μ H
 $\pm 5\%$ 1000 cps bridge for 27 μ H to 10 000 μ H

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: 700 VRMS at sea level

Operating Temperature: - 55 $^{\circ}$ C to + 125 $^{\circ}$ 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

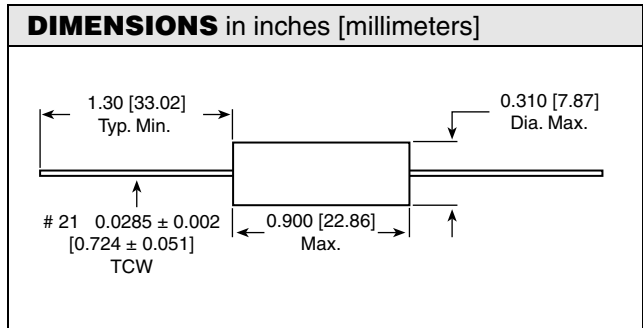
Moisture Resistance: Meets requirements of MIL-PRF-15305

Shock Resistance: Meets requirements of MIL-PRF-15305

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

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
IM-10RFCL-12	1.0	$\pm 10\%$	130	15	136	0.03	4000
IM-10RFCL-12	1.2	$\pm 10\%$	130	15	124	0.03	4000
IM-10RFCL-12	1.5	$\pm 10\%$	130	10	112	0.03	4000
IM-10RFCL-12	1.8	$\pm 10\%$	130	10	100	0.03	4000
IM-10RFCL-12	2.2	$\pm 10\%$	130	10	92	0.04	3500
IM-10RFCL-12	2.7	$\pm 10\%$	100	10	82	0.04	3500
IM-10RFCL-12	3.3	$\pm 10\%$	100	7.9	72	0.04	3500
IM-10RFCL-12	3.9	$\pm 10\%$	80	7.9	68	0.05	3100
IM-10RFCL-12	4.7	$\pm 10\%$	75	7.9	64	0.05	3100
IM-10RFCL-12	5.6	$\pm 10\%$	65	7.9	58	0.06	3000
IM-10RFCL-12	6.8	$\pm 10\%$	65	7.9	52	0.06	3000
IM-10RFCL-12	8.2	$\pm 10\%$	65	7.9	46	0.11	2400
IM-10RFCL-12	10	$\pm 10\%$	75	5.0	40	0.15	1800
IM-10RFCL-12	12	$\pm 10\%$	75	5.0	36	0.23	1600
IM-10RFCL-12	15	$\pm 10\%$	75	5.0	32	0.3	1300
IM-10RFCL-12	18	$\pm 10\%$	75	5.0	29	0.4	1150
IM-10RFCL-12	22	$\pm 10\%$	75	2.5	26	0.5	1000
IM-10RFCL-12	27	$\pm 5\%$	70	2.5	24	0.6	900
IM-10RFCL-12	33	$\pm 5\%$	70	2.5	22	0.7	850
IM-10RFCL-12	39	$\pm 5\%$	70	2.5	21	1.1	720
IM-10RFCL-12	47	$\pm 5\%$	75	2.5	20	1.3	620
IM-10RFCL-12	56	$\pm 5\%$	80	2.5	18	1.8	540
IM-10RFCL-12	68	$\pm 5\%$	100	2.5	16	2.4	450
IM-10RFCL-12	82	$\pm 5\%$	100	2.5	14	2.8	425
IM-10RFCL-12	100	$\pm 5\%$	100	1.5	13	3.2	400
IM-10RFCL-12	120	$\pm 5\%$	100	1.5	12	4.8	360
IM-10RFCL-12	150	$\pm 5\%$	100	1.0	11	6.4	280
IM-10RFCL-12	180	$\pm 5\%$	95	1.0	10	9.5	240
IM-10RFCL-12	220	$\pm 5\%$	95	1.0	9	12	200
IM-10RFCL-12	270	$\pm 5\%$	70	1.0	7	13	195
IM-10RFCL-12	330	$\pm 5\%$	65	0.79	6	14	190
IM-10RFCL-12	390	$\pm 5\%$	65	0.79	5	15.5	180
IM-10RFCL-12	470	$\pm 5\%$	60	0.79	4	17	170
IM-10RFCL-12	560	$\pm 5\%$	75	0.50	3	18.5	165
IM-10RFCL-12	680	$\pm 5\%$	75	0.50	2.50	20	155
IM-10RFCL-12	820	$\pm 5\%$	75	0.50	2.00	22	150
IM-10RFCL-12	1000	$\pm 5\%$	75	0.50	1.90	24	145
IM-10RFCL-12	1200	$\pm 5\%$	75	0.50	1.70	27	137
IM-10RFCL-12	1500	$\pm 5\%$	75	0.40	1.50	29	130
IM-10RFCL-12	1800	$\pm 5\%$	65	0.40	1.40	32	125
IM-10RFCL-12	2200	$\pm 5\%$	65	0.25	1.20	35	120
IM-10RFCL-12	2700	$\pm 5\%$	65	0.25	1.00	40	112
IM-10RFCL-12	3300	$\pm 5\%$	65	0.25	0.95	45	105
IM-10RFCL-12	3900	$\pm 5\%$	65	0.25	0.80	49	100
IM-10RFCL-12	4700	$\pm 5\%$	65	0.25	0.75	53	95
IM-10RFCL-12	5600	$\pm 5\%$	65	0.25	0.70	60	90
IM-10RFCL-12	6800	$\pm 5\%$	65	0.25	0.60	67	85
IM-10RFCL-12	8200	$\pm 5\%$	65	0.25	0.50	75	82
IM-10RFCL-12	10 000	$\pm 5\%$	65	0.15	0.45	80	80

IRON CORE



MARKING

- Color coded

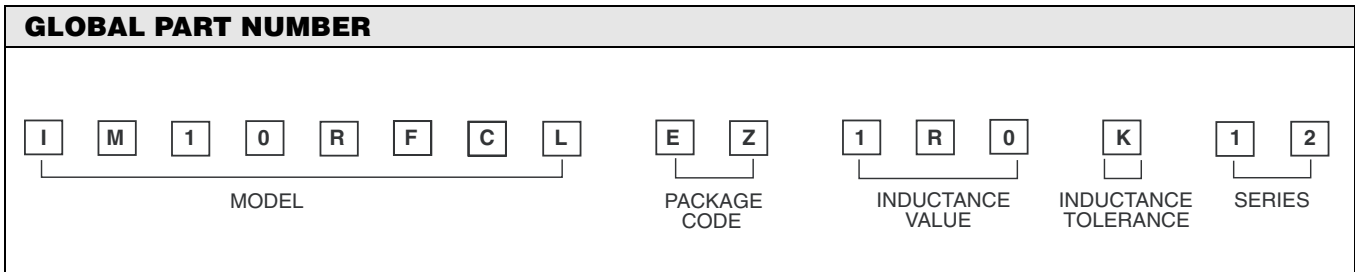
* Model electricals and tolerances shown



ORDERING INFORMATION

IM-10RFCL-12	1.0 μ H	10 %	EZ	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER





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