



RoHS

COMPLIANT

Inductors, Commercial, Molded, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance Tolerance: \pm 10 % on Q-meter for 1 μH to 22 μH \pm 5 % 1000 cps bridge for 27 μH to 10 000 μH

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 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

Q: Measured on a Q-meter

Rating: ¹/₂ W dissipation for L models

MECHANICAL SPECIFICATIONS

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

FEATURES

- Miniature shielded inductor
- High inductance-to-size ratio
- Inductance range is 0.10 μH to 180 000 μH
- Encapsulated non-flammable shielded unit
- 0.164" [4.17 mm] diameter by 0.450" [11.43 mm] long envelope
- Offers extremely high inductance for density packaging
- Compliant to RoHS directive 2002/95/EC

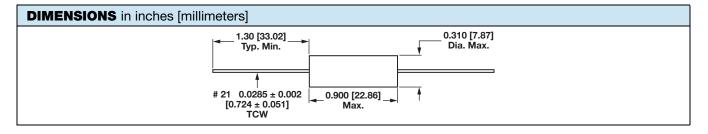
DENSITY SPECIFICATIONS

Weight: 4.1 g 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 logarythmic swings, each of 20 min duration repeated for each of three mutually perpendicular planes



STANDARD ELECTRICAL SPECIFICATIONS									
MODEL ⁽¹⁾	IND. (µH)	TOL. (%)	Q MIN.	TEST FREQUENCY Q (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	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	ш	
IM-10RFCL-12	3.9	± 10	80	7.9	68	0.05	3100	ORE	
IM-10RFCL-12	4.7	± 10	75	7.9	64	0.05	3100	S	
IM-10RFCL-12	5.6	± 10	65	7.9	58	0.06	3000	IRON	
IM-10RFCL-12	6.8	± 10	65	7.9	52	0.06	3000	Ē	
IM-10RFCL-12	8.2	± 10	65	7.9	46	0.11	2400		
IM-10RFCL-12	10	± 10	75	5.0	40	0.15	1800		
IM-10RFCL-12	12	± 10	75	5.0	36	0.23	1600		
IM-10RFCL-12	15	± 10	75	5.0	32	0.3	1300		
IM-10RFCL-12	18	± 10	75	5.0	29	0.4	1150		
IM-10RFCL-12	22	± 10	75	2.5	26	0.5	1000		

Note

⁽¹⁾ Model electricals and tolerances shown

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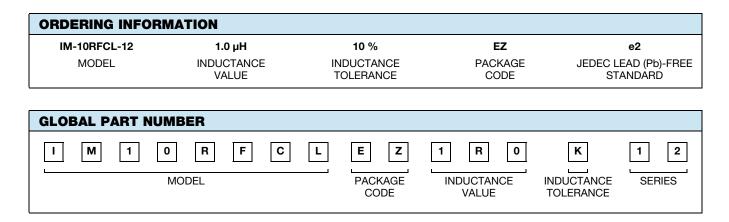
STANDARD ELECTRICAL SPECIFICATIONS										
MODEL ⁽¹⁾	IND. (µH)	TOL. (%)	Q MIN.	TEST FREQUENCY Q (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)			
IM-10RFCL-12	27	± 5	70	2.5	24	0.6	900			
IM-10RFCL-12	33	± 5	70	2.5	22	0.7	850			
IM-10RFCL-12	39	± 5	70	2.5	21	1.1	720			
IM-10RFCL-12	47	± 5	75	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	1.0	11	6.4	280			
IM-10RFCL-12	180	± 5	95	1.0	10	9.5	240			
IM-10RFCL-12	220	± 5	95	1.0	9	12	200			
IM-10RFCL-12	270	± 5	70	1.0	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	CORE		
IM-10RFCL-12	470	± 5	60	0.79	4	17	170	S		
IM-10RFCL-12	560	± 5	75	0.50	3	18.5	165	IRON		
IM-10RFCL-12	680	± 5	75	0.50	2.50	20	155	В С		
IM-10RFCL-12	820	± 5	75	0.50	2.00	22	150	-		
IM-10RFCL-12	1000	± 5	75	0.50	1.90	24	145			
IM-10RFCL-12	1200	± 5	75	0.50	1.70	27	137			
IM-10RFCL-12	1500	± 5	75	0.40	1.50	29	130			
IM-10RFCL-12	1800	± 5	65	0.40	1.40	32	125			
IM-10RFCL-12	2200	± 5	65	0.25	1.20	35	120			
IM-10RFCL-12	2700	± 5	65	0.25	1.00	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	10 000	± 5	65	0.15	0.45	80	80			

Note

⁽¹⁾ Model electricals and tolerances shown

MARKING

- Color coded





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