

## Inductors, Commercial, Molded



STANDARD ELECTRICAL SPECIFICATIONS							
MODEL*	IND. (μH)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
IM-6RFCS-40	0.10	± 10 %	75	50	400	0.02	4000
IM-6RFCS-40	0.12	± 10 %	75	50	400	0.025	3500
IM-6RFCS-40	0.15	± 10 %	75	50	400	0.03	3000
IM-6RFCS-40	0.18	± 10 %	75	50	400	0.03	3000
IM-6RFCS-40	0.22	± 10 %	75	50	400	0.03	3000
IM-6RFCS-40	0.27	± 10 %	70	45	376	0.04	2700
IM-6RFCS-40	0.33	± 10 %	70	40	352	0.05	2500
IM-6RFCS-40	0.39	± 10 %	65	40	320	0.08	2000
IM-6RFCS-40	0.47	± 10 %	60	25	288	0.08	2000
IM-6RFCS-40	0.56	± 10 %	55	25	264	0.10	1700
IM-6RFCS-40	0.68	± 10 %	55	25	240	0.12	1500
IM-6RFCS-40	0.82	± 10 %	50	25	220	0.18	1300
IM-6RFCS-40	1.0	± 10 %	50	20	200	0.24	1100
IM-6RFCS-40	1.2	± 10 %	45	20	176	0.35	1000
IM-6RFCS-40	1.5	± 10 %	45	15	160	0.43	850
IM-6RFCS-40	1.8	± 10 %	45	15	144	0.65	720
IM-6RFCS-40	2.2	± 10 %	45	15	132	0.80	610
IM-6RFCS-40	2.7	± 10 %	55	10	88	0.12	1600
IM-6RFCS-40	3.3	± 10 %	55	10	80	0.15	1400
IM-6RFCS-40	3.9	± 10 %	60	10	76	0.23	1200
IM-6RFCS-40	4.7	± 10 %	70	7.9	72	0.30	1000
IM-6RFCS-40	5.6	± 10 %	65	7.9	64	0.45	900
IM-6RFCS-40	6.8	± 10 %	65	7.9	56	0.55	800
IM-6RFCS-40	8.2	± 10 %	60	7.9	52	0.65	720
IM-6RFCS-40	10	± 10 %	60	5.0	48	0.73	650
IM-6RFCS-40	12	± 10 %	65	5.0	42	1.1	590
IM-6RFCS-40	15	± 10 %	80	2.5	38	1.4	500
IM-6RFCS-40	18	± 10 %	75	2.5	34	1.6	460
IM-6RFCS-40	22	± 10 %	75	2.5	32	1.8	430
IM-6RFCS-40	27	± 5 %	75	2.5	29	2.7	360
IM-6RFCS-40	33	± 5 %	85	2.5	26	3.5	300
IM-6RFCS-40	39	± 5 %	80	2.5	21	3.8	290
IM-6RFCS-40	47	± 5 %	80	2.5	18	4.0	275
IM-6RFCS-40	56	± 5 %	75	2.5	15	4.4	265
IM-6RFCS-40	68	± 5 %	75	2.5	13	4.7	250
IM-6RFCS-40	82	± 5 %	75	2.5	10	5.3	235
IM-6RFCS-40	100	± 5 %	75	1.5	8.0	6.0	220
IM-6RFCS-40	120	± 5 %	65	0.79	5.7	5.0	170
IM-6RFCS-40	150	± 5 %	65	0.79	5.4	5.8	164
IM-6RFCS-40	180	± 5 %	65	0.79	5.0	6.6	158
IM-6RFCS-40	220	± 5 %	65	0.79	4.7	7.4	155
IM-6RFCS-40	270	± 5 %	65	0.79	4.5	8.0	150
IM-6RFCS-40	300	± 5 %	65	0.79	4.2	8.6	145
IM-6RFCS-40	330	± 5 %	65	0.79	4.0	8.9	142
IM-6RFCS-40	360	± 5 %	65	0.79	3.8	9.6	137
IM-6RFCS-40	390	± 5 %	65	0.79	3.6	9.9	135
IM-6RFCS-40	430	± 5 %	65	0.79	3.4	10.4	131
IM-6RFCS-40	470	± 5 %	65	0.79	3.2	10.9	128
IM-6RFCS-40	510	± 5 %	65	0.79	3.0	11.6	124
IM-6RFCS-40	560	± 5 %	65	0.79	2.9	11.8	123
IM-6RFCS-40	620	± 5 %	60	0.79	2.8	12.5	120
IM-6RFCS-40	680	± 5 %	60	0.79	2.7	13.5	115
IM-6RFCS-40	750	± 5 %	60	0.79	2.6	14.0	113
IM-6RFCS-40	820	± 5 %	60	0.79	2.5	15.0	110
IM-6RFCS-40	910	± 5 %	60	0.79	2.4	15.5	107
IM-6RFCS-40	1000	± 5 %	60	0.79	2.2	16.5	104

PHENOLIC CORE

IRON CORE

### FEATURES

- Classification is Grade 1, Class B
- Inductance range is 0.10 μH to 1000 μH
- Proven reliability molded inductors



**RoHS**  
COMPLIANT

### ELECTRICAL SPECIFICATIONS

**Inductance Tolerance:** ± 10 % on Q-Meter for 0.10 μH to 22 μH  
± 5 % 1000 cps bridge for 27 μH to 100 μH  
± 5 % on Q-Meter for 120 μH to 1000 μH

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

**Dielectric Strength:** 700 VRMS 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

### MECHANICAL SPECIFICATIONS

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

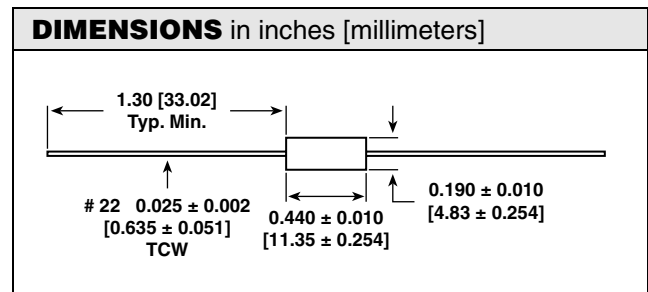
### DENSITY SPECIFICATIONS

**Weight:** 0.9 gram maximum

### ENVIRONMENTAL SPECIFICATIONS

**Moisture and Shock Resistance:** Meets requirements of MIL-PRF-15305, Grade 1, Class B

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



MARKING
- Color coded per MIL-PRF-15305 (latest revision)

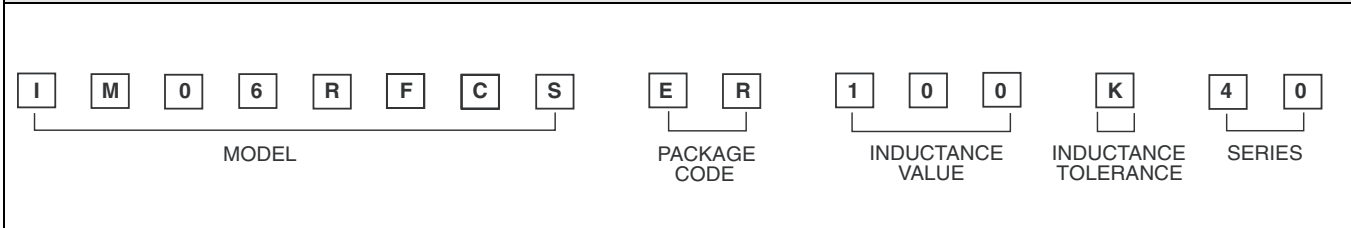
\* Model electricals and tolerances shown



## ORDERING INFORMATION

<b>IM-6RFCS-40</b>	<b>10 <math>\mu</math>H</b>	<b>10 %</b>	<b>ER</b>	<b>e2</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

## GLOBAL PART NUMBER





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