

Inductors

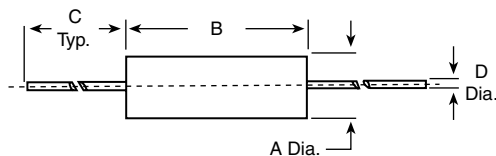
Commercial, Molded



INDUCTANCE RANGE AND MILITARY STANDARD

MODEL	INDUCTANCE RANGE	
	FROM	TO
IM-1	0.10 μ H	100 μ H
IM-2	0.022 μ H	0.082 μ H
	0.10 μ H	1 μ H
	1.2 μ H	27 μ H
	33 μ H	1000 μ H
IM-4	0.15 μ H	4.7 μ H
	5.6 μ H	33 μ H
	36 μ H	240 μ H
	270 μ H	1800 μ H
IM-6	0.10 μ H	2.7 μ H
	3.3 μ H	27 μ H
	33 μ H	220 μ H
	270 μ H	1000 μ H
IM-8	1100 μ H	3600 μ H
IM-9	68 μ H	150 μ H
IM-10	3900 μ H	10000 μ H

DIMENSIONS in inches [millimeters]



MODEL		A (Dia.)	B	C (Typ.)	D (Dia.)
IM-1	Max.	0.086 [2.18]	0.210 [5.33]	1.62 [41.15]	0.0215 [0.546]
	Min.	0.070 [1.78]	0.190 [4.83]	1.38 [35.05]	0.0185 [0.470]
IM-2	Max.	0.105 [2.67]	0.260 [6.60]	1.63 [41.40]	0.0215 [0.546]
	Min.	0.085 [2.16]	0.240 [6.10]	1.25 [31.75]	0.0185 [0.470]
IM-4	Max.	0.165 [4.19]	0.385 [9.78]	1.63 [41.40]	0.027 [0.686]
	Min.	0.145 [3.68]	0.365 [9.27]	1.25 [31.75]	0.023 [0.584]
IM-6	Max.	0.200 [5.08]	0.450 [11.43]	1.63 [41.40]	0.027 [0.686]
	Min.	0.180 [4.57]	0.430 [10.92]	1.25 [31.75]	0.023 [0.584]
IM-8	Max.	0.225 [5.72]	0.570 [14.48]	1.63 [41.40]	0.030 [0.762]
	Min.	0.205 [5.21]	0.550 [13.97]	1.25 [31.75]	0.026 [0.660]
IM-9	Max.	0.260 [6.60]	0.570 [14.48]	1.63 [41.40]	0.027 [0.686]
	Min.	0.240 [6.10]	0.550 [13.97]	1.25 [31.75]	0.023 [0.584]
IM-10	Max.	0.250 [6.35]	0.750 [19.05]	1.63 [41.40]	0.034 [0.864]
	Min.	0.230 [5.84]	0.730 [18.54]	1.25 [31.75]	0.030 [0.762]

FEATURES

- Wide inductance range in small package
- Flame retardant coating
- Precision performance, excellent reliability, sturdy construction
- Epoxy molded construction provides superior moisture protection



RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: $\pm 1\%$, $\pm 3\%$, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Other tolerances available on request.

Insulation Resistance: 1000 Megohm minimum per MIL-STD-202, Method 302, Test Condition B

Dielectric Strength: Per MIL-STD-202, Method 301:
1000 VAC for IM-2, -4, -6, -8, -9 and -10. 200 VAC for IM-1

MECHANICAL SPECIFICATIONS

Terminal Strength: Per MIL-STD-202, Method 211,
Test Condition A: For IM-1, 3 pounds pull
For IM-2, -4, -6, -8, -9 and -10, 5 pounds pull and twist

Weight: IM-1 = 0.25 gram maximum

IM-2 = 0.30 gram maximum

IM-4 = 0.65 gram maximum

IM-6 = 0.95 gram maximum

IM-8 = 1.5 gram maximum

IM-9 = 2.0 gram maximum

IM-10 = 2.5 gram maximum

MATERIAL SPECIFICATIONS

Encapsulant: Epoxy

Standard Terminals: IM-1 and IM-2, 24 AWG; IM-4, IM-6 and IM-9, 22 AWG; IM-8, 21 AWG; and IM-10, 20 AWG, tinned copper

TEST EQUIPMENT*

- H/P 4342A Q-Meter
- Measurements Corporation Megacycle Meter, Model 59
- Wheatstone bridge

* Test procedures per MIL-PRF-15305

ENVIRONMENTAL PERFORMANCE

TEST	CONDITIONS	SPECIFICATIONS
Barometric Pressure	Test Condition C	MIL-STD-202, Method 105
Thermal Shock	Test Condition A-1	MIL-STD-202, Method 107
Flammability	-	MIL-STD-202, Method 111
Overload	-	MIL-PRF-15305
Low Temperature Storage	-	MIL-PRF-15305
Resistance to Soldering Heat	Test Condition A	MIL-STD-202, Method 210
Resistance to Solvents	-	MIL-STD-202, Method 215



STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-1	0.10	$\pm 10\%$	35	25.0	680.0	0.13	895	PHENOLIC CORE
IM-1	0.12	$\pm 10\%$	35	25.0	650.0	0.15	835	
IM-1	0.15	$\pm 10\%$	35	25.0	560.0	0.18	760	
IM-1	0.18	$\pm 10\%$	35	25.0	540.0	0.21	705	
IM-1	0.22	$\pm 10\%$	30	25.0	500.0	0.25	645	
IM-1	0.27	$\pm 10\%$	30	25.0	440.0	0.38	525	
IM-1	0.33	$\pm 10\%$	25	25.0	410.0	0.49	460	
IM-1	0.39	$\pm 10\%$	25	25.0	380.0	0.59	420	
IM-1	0.47	$\pm 10\%$	25	25.0	340.0	0.62	410	
IM-1	0.56	$\pm 10\%$	40	25.0	250.0	0.18	510	IRON CORE
IM-1	0.68	$\pm 10\%$	40	25.0	215.0	0.20	485	
IM-1	0.82	$\pm 10\%$	40	25.0	200.0	0.22	465	
IM-1	1.0	$\pm 10\%$	40	25.0	190.0	0.25	435	
IM-1	1.2	$\pm 10\%$	35	7.9	170.0	0.28	410	
IM-1	1.5	$\pm 10\%$	40	7.9	150.0	0.49	310	
IM-1	1.8	$\pm 10\%$	40	7.9	135.0	0.56	290	
IM-1	2.2	$\pm 10\%$	45	7.9	130.0	0.72	257	
IM-1	2.7	$\pm 10\%$	45	7.9	110.0	0.85	236	
IM-1	3.3	$\pm 10\%$	45	7.9	100.0	1.2	198	
IM-1	3.9	$\pm 10\%$	50	7.9	95.0	1.5	178	
IM-1	4.7	$\pm 10\%$	55	7.9	88.0	2.1	150	
IM-1	5.6	$\pm 10\%$	55	7.9	78.0	2.8	130	
IM-1	6.8	$\pm 10\%$	55	7.9	69.0	3.2	122	
IM-1	8.2	$\pm 10\%$	45	7.9	52.0	4.4	104	
IM-1	10.0	$\pm 10\%$	45	7.9	47.0	5.2	95	
IM-1	12.0	$\pm 10\%$	40	2.5	31.0	3.0	126	
IM-1	15.0	$\pm 10\%$	40	2.5	26.0	3.4	118	
IM-1	18.0	$\pm 10\%$	40	2.5	23.0	3.8	112	
IM-1	22.0	$\pm 10\%$	45	2.5	20.0	4.3	105	
IM-1	27.0	$\pm 10\%$	45	2.5	17.0	4.7	100	
IM-1	33.0	$\pm 10\%$	45	2.5	15.0	5.2	95	
IM-1	39.0	$\pm 10\%$	45	2.5	13.5	6.8	83.5	
IM-1	47.0	$\pm 10\%$	45	2.5	12.5	8.2	76	
IM-1	56.0	$\pm 10\%$	45	2.5	11.5	10.0	69	
IM-1	68.0	$\pm 10\%$	45	2.5	10.5	11.5	64	
IM-1	82.0	$\pm 10\%$	45	2.5	10.0	16.0	54.5	
IM-1	100.0	$\pm 10\%$	45	2.5	9.5	17.5	52	
IM-2	0.022	$\pm 20\%$	50	50.0	900.0	0.025	2400	PHENOLIC CORE
IM-2	0.027	$\pm 10\%$	40	25.0	875.0	0.03	2200	
IM-2	0.033	$\pm 10\%$	40	25.0	850.0	0.035	2000	
IM-2	0.039	$\pm 10\%$	40	25.0	825.0	0.04	1900	
IM-2	0.047	$\pm 10\%$	40	25.0	800.0	0.045	1800	
IM-2	0.056	$\pm 10\%$	40	25.0	775.0	0.05	1700	
IM-2	0.068	$\pm 10\%$	40	25.0	750.0	0.06	1500	
IM-2	0.082	$\pm 10\%$	40	25.0	725.0	0.07	1400	
IM-2	0.10	$\pm 10\%$	40	25.0	680.0	0.08	1350	PHENOLIC CORE
IM-2	0.12	$\pm 10\%$	40	25.0	640.0	0.09	1270	
IM-2	0.15	$\pm 10\%$	38	25.0	600.0	0.10	1200	
IM-2	0.18	$\pm 10\%$	35	25.0	550.0	0.12	1105	
IM-2	0.22	$\pm 10\%$	33	25.0	510.0	0.14	1025	
IM-2	0.27	$\pm 10\%$	33	25.0	430.0	0.16	960	
IM-2	0.33	$\pm 10\%$	30	25.0	410.0	0.22	815	
IM-2	0.39	$\pm 10\%$	30	25.0	365.0	0.30	700	
IM-2	0.47	$\pm 10\%$	30	25.0	330.0	0.35	650	
IM-2	0.56	$\pm 10\%$	30	25.0	300.0	0.50	545	
IM-2	0.68	$\pm 10\%$	28	25.0	275.0	0.60	495	
IM-2	0.82	$\pm 10\%$	28	25.0	250.0	0.85	415	
IM-2	1.0	$\pm 10\%$	25	25.0	230.0	1.0	385	IRON CORE
IM-2	1.2	$\pm 10\%$	25	7.9	150.0	0.18	590	
IM-2	1.5	$\pm 10\%$	28	7.9	140.0	0.22	535	
IM-2	1.8	$\pm 10\%$	30	7.9	125.0	0.30	455	
IM-2	2.2	$\pm 10\%$	30	7.9	115.0	0.40	395	
IM-2	2.7	$\pm 10\%$	37	7.9	100.0	0.55	355	
IM-2	3.3	$\pm 10\%$	45	7.9	90.0	0.85	270	
IM-2	3.9	$\pm 10\%$	45	7.9	80.0	1.0	250	
IM-2	4.7	$\pm 10\%$	45	7.9	75.0	1.2	230	

* Measured with full length lead. **Rated DC current based on maximum temperature rise as shown in table.

STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	IND. (μH)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-2	5.6	± 10 %	50	7.9	65.0	1.8	185	IRON CORE
IM-2	6.8	± 10 %	50	7.9	60.0	2.0	175	
IM-2	8.2	± 10 %	55	7.9	55.0	2.7	155	
IM-2	10.0	± 10 %	55	7.9	50.0	3.7	130	
IM-2	12.0	± 10 %	45	2.5	40.0	2.7	155	
IM-2	15.0	± 10 %	40	2.5	35.0	2.8	150	
IM-2	18.0	± 10 %	50	2.5	30.0	3.1	145	
IM-2	22.0	± 10 %	50	2.5	25.0	3.3	140	
IM-2	27.0	± 10 %	50	2.5	20.0	3.5	135	
IM-2	33.0	± 10 %	45	2.5	24.0	3.4	130	FERRITE CORE
IM-2	39.0	± 10 %	45	2.5	22.0	3.6	125	
IM-2	47.0	± 10 %	45	2.5	20.0	4.5	110	
IM-2	56.0	± 10 %	45	2.5	18.0	5.7	100	
IM-2	68.0	± 10 %	50	2.5	15.0	6.7	92	
IM-2	82.0	± 10 %	50	2.5	14.0	7.3	88	
IM-2	100.0	± 10 %	50	2.5	13.0	8	84	
IM-2	120.0	± 10 %	30	0.79	12.0	13	66	
IM-2	150.0	± 10 %	30	0.79	11.0	15	61	
IM-2	180.0	± 10 %	30	0.79	10.0	17	57	
IM-2	220.0	± 10 %	30	0.79	9.0	21	52	
IM-2	270.0	± 10 %	30	0.79	8.0	25	47	
IM-2	330.0	± 10 %	30	0.79	7.0	28	45	
IM-2	390.0	± 10 %	30	0.79	6.5	35	40	
IM-2	470.0	± 10 %	30	0.79	6.0	42	36	
IM-2	560.0	± 10 %	30	0.79	5.0	46	35	
IM-2	680.0	± 10 %	30	0.79	4.0	60	30	
IM-2	820.0	± 10 %	30	0.79	3.8	65	29	
IM-2	1000.0	± 10 %	30	0.79	3.4	72	28	
IM-4	0.15	± 20 %	50	25	525.0	0.03	2450	PHENOLIC CORE
IM-4	0.22	± 20 %	50	25	450.0	0.055	1810	
IM-4	0.33	± 20 %	45	25	360.0	0.09	1400	
IM-4	0.47	± 20 %	45	25	310.0	0.12	1225	
IM-4	0.56	± 10 %	50	25	280.0	0.135	1150	
IM-4	0.68	± 10 %	50	25	250.0	0.15	1100	
IM-4	0.82	± 10 %	50	25	220.0	0.22	900	
IM-4	1.0	± 10 %	50	25	200.0	0.29	785	
IM-4	1.2	± 10 %	33	7.9	180.0	0.42	650	
IM-4	1.5	± 10 %	33	7.9	160.0	0.50	600	
IM-4	1.8	± 10 %	33	7.9	150.0	0.65	525	
IM-4	2.2	± 10 %	33	7.9	135.0	0.95	435	
IM-4	2.7	± 10 %	33	7.9	120.0	1.20	385	
IM-4	3.3	± 10 %	33	7.9	110.0	2.0	300	
IM-4	3.9	± 10 %	33	7.9	100.0	2.30	280	
IM-4	4.7	± 10 %	33	7.9	90.0	2.60	260	
IM-4	5.6	± 10 %	45	7.9	60.0	0.32	495	IRON CORE
IM-4	6.8	± 10 %	50	7.9	55.0	0.50	395	
IM-4	8.2	± 10 %	50	7.9	50.0	0.60	360	
IM-4	10.0	± 10 %	55	7.9	45.0	0.90	290	
IM-4	12.0	± 10 %	65	2.5	42.0	1.10	265	
IM-4	15.0	± 10 %	65	2.5	40.0	1.40	240	
IM-4	18.0	± 10 %	75	2.5	34.0	2.25	185	
IM-4	22.0	± 10 %	75	2.5	30.0	2.50	175	
IM-4	27.0	± 10 %	60	2.5	25.0	2.60	170	
IM-4	33.0	± 10 %	65	2.5	19.0	3.0	165	

* Measured with full length lead. **Rated DC current based on maximum temperature rise as shown in table.



STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)
IM-4	36.0	$\pm 5\%$	60	2.5	15.5	2.50	180
IM-4	39.0	$\pm 5\%$	60	2.5	14.5	2.60	176
IM-4	43.0	$\pm 5\%$	60	2.5	13.7	2.70	172
IM-4	47.0	$\pm 5\%$	55	2.5	13.0	2.75	170
IM-4	51.0	$\pm 5\%$	55	2.5	12.7	2.85	167
IM-4	56.0	$\pm 5\%$	55	2.5	12.0	3.00	164
IM-4	62.0	$\pm 5\%$	55	2.5	11.5	3.15	160
IM-4	68.0	$\pm 5\%$	55	2.5	11.0	3.30	156
IM-4	75.0	$\pm 5\%$	55	2.5	10.5	3.70	147
IM-4	82.0	$\pm 5\%$	50	2.5	10.3	3.90	143
IM-4	91.0	$\pm 5\%$	50	2.5	10.0	4.30	136
IM-4	100.0	$\pm 5\%$	50	2.5	9.5	4.50	133
IM-4	110.0	$\pm 5\%$	60	0.79	8.9	4.90	128
IM-4	120.0	$\pm 5\%$	65	0.79	8.7	5.20	124
IM-4	130.0	$\pm 5\%$	65	0.79	8.5	5.45	121
IM-4	150.0	$\pm 5\%$	65	0.79	8.0	6.05	114
IM-4	160.0	$\pm 5\%$	65	0.79	7.5	6.40	111
IM-4	180.0	$\pm 5\%$	65	0.79	7.0	6.75	108
IM-4	200.0	$\pm 5\%$	65	0.79	6.5	7.10	106
IM-4	220.0	$\pm 5\%$	65	0.79	6.2	7.45	103
IM-4	240.0	$\pm 5\%$	65	0.79	5.9	7.80	101
IM-4	270.0	$\pm 5\%$	65	0.79	5.7	11.0	129
IM-4	300.0	$\pm 5\%$	65	0.79	5.4	11.5	125
IM-4	330.0	$\pm 5\%$	65	0.79	5.1	12.0	123
IM-4	360.0	$\pm 5\%$	65	0.79	4.8	15.5	108
IM-4	390.0	$\pm 5\%$	65	0.79	4.5	16.3	105
IM-4	430.0	$\pm 5\%$	65	0.79	4.2	17.1	102
IM-4	470.0	$\pm 5\%$	65	0.79	3.9	17.9	100
IM-4	510.0	$\pm 5\%$	65	0.79	3.7	18.8	98
IM-4	560.0	$\pm 5\%$	65	0.79	3.5	24.7	85
IM-4	620.0	$\pm 5\%$	65	0.79	3.3	25.9	83
IM-4	680.0	$\pm 5\%$	55	0.79	3.1	27.2	81
IM-4	750.0	$\pm 5\%$	55	0.79	2.9	28.6	79
IM-4	820.0	$\pm 5\%$	55	0.79	2.7	30.0	77
IM-4	910.0	$\pm 5\%$	55	0.79	2.5	31.5	76
IM-4	1000.0	$\pm 5\%$	55	0.79	2.3	33.1	74
IM-4	1100.0	$\pm 5\%$	30	0.25	2.1	43.5	64
IM-4	1200.0	$\pm 5\%$	30	0.25	2.0	45.7	63
IM-4	1300.0	$\pm 5\%$	30	0.25	1.9	49.0	61
IM-4	1500.0	$\pm 5\%$	30	0.25	1.8	52.5	59
IM-4	1600.0	$\pm 5\%$	30	0.25	1.7	54.0	58
IM-4	1800.0	$\pm 5\%$	30	0.25	1.6	56.7	56
IM-6	0.10	$\pm 20\%$	55	25.0	510.0	0.020	3600
IM-6	0.12	$\pm 20\%$	55	25.0	510.0	0.025	3300
IM-6	0.15	$\pm 20\%$	55	25.0	510.0	0.030	3000
IM-6	0.18	$\pm 20\%$	55	25.0	450.0	0.030	2900
IM-6	0.22	$\pm 20\%$	50	25.0	415.0	0.035	2800
IM-6	0.27	$\pm 20\%$	50	25.0	380.0	0.050	2400
IM-6	0.33	$\pm 20\%$	50	25.0	350.0	0.065	2000
IM-6	0.39	$\pm 20\%$	50	25.0	320.0	0.080	1800
IM-6	0.47	$\pm 20\%$	50	25.0	300.0	0.085	1700
IM-6	0.56	$\pm 10\%$	50	25.0	270.0	0.125	1450
IM-6	0.68	$\pm 10\%$	45	25.0	250.0	0.150	1300
IM-6	0.82	$\pm 10\%$	40	25.0	210.0	0.205	1100
IM-6	1.0	$\pm 10\%$	40	25.0	200.0	0.290	930
IM-6	1.2	$\pm 10\%$	30	7.9	180.0	0.400	785
IM-6	1.5	$\pm 10\%$	30	7.9	170.0	0.485	700
IM-6	1.8	$\pm 10\%$	30	7.9	150.0	0.740	580
IM-6	2.2	$\pm 10\%$	30	7.9	140.0	0.970	505
IM-6	2.7	$\pm 10\%$	30	7.9	120.0	1.20	460

IRON CORE

PHENOLIC CORE

* Measured with full length lead. **Rated DC current based on maximum temperature rise as shown in table.

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)
				LT10K			
IM-6	3.3	$\pm 10\%$	30	7.9	70.0	0.140	990
IM-6	3.9	$\pm 10\%$	30	7.9	65.0	0.155	870
IM-6	4.7	$\pm 10\%$	30	7.9	60.0	0.210	745
IM-6	5.6	$\pm 10\%$	30	7.9	50.0	0.280	645
IM-6	6.8	$\pm 10\%$	30	7.9	50.0	0.375	560
IM-6	8.2	$\pm 10\%$	30	7.9	48.0	0.440	540
IM-6	10.0	$\pm 10\%$	30	7.9	42.0	0.605	440
IM-6	12.0	$\pm 10\%$	50	2.5	36.0	1.05	370
IM-6	15.0	$\pm 10\%$	55	2.5	30.0	1.20	310
IM-6	18.0	$\pm 10\%$	60	2.5	30.0	1.95	255
IM-6	22.0	$\pm 10\%$	60	2.5	24.0	2.20	240
IM-6	27.0	$\pm 10\%$	65	2.5	22.0	2.75	205
IM-6	33.0	$\pm 10\%$	75	2.5	20.0	3.5	185
IM-6	39.0	$\pm 10\%$	75	2.5	18.0	3.8	176
IM-6	47.0	$\pm 10\%$	75	2.5	16.0	4.0	170
IM-6	56.0	$\pm 10\%$	75	2.5	15.0	4.4	164
IM-6	68.0	$\pm 10\%$	75	2.5	12.0	4.7	156
IM-6	82.0	$\pm 10\%$	75	2.5	10.0	5.3	143
IM-6	100.0	$\pm 10\%$	65	2.5	8.0	6.0	133
IM-6	120.0	$\pm 10\%$	65	0.79	6.0	5.0	124
IM-6	150.0	$\pm 10\%$	65	0.79	5.4	5.8	118
IM-6	180.0	$\pm 10\%$	65	0.79	5.0	6.6	114
IM-6	220.0	$\pm 10\%$	65	0.79	4.7	7.4	112
IM-6	270.0	$\pm 5\%$	65	0.79	5.6	8.2	110
IM-6	300.0	$\pm 5\%$	65	0.79	5.3	8.7	107
IM-6	330.0	$\pm 5\%$	65	0.79	5.0	9.1	105
IM-6	360.0	$\pm 5\%$	65	0.79	4.7	9.6	102
IM-6	390.0	$\pm 5\%$	65	0.79	4.5	10.0	100
IM-6	430.0	$\pm 5\%$	65	0.79	4.3	10.6	97
IM-6	470.0	$\pm 5\%$	65	0.79	4.0	11.1	95
IM-6	510.0	$\pm 5\%$	65	0.79	3.8	11.6	93
IM-6	560.0	$\pm 5\%$	65	0.79	3.6	12.3	91
IM-6	620.0	$\pm 5\%$	60	0.79	3.5	13.0	88
IM-6	680.0	$\pm 5\%$	60	0.79	3.4	13.7	85
IM-6	750.0	$\pm 5\%$	60	0.79	3.3	14.4	83
IM-6	820.0	$\pm 5\%$	60	0.79	3.1	15.1	81
IM-6	910.0	$\pm 5\%$	60	0.79	2.9	15.8	79
IM-6	1000.0	$\pm 5\%$	60	0.79	2.8	16.5	78
IM-8	1100.0	$\pm 5\%$	60	0.25	2.8	21.0	78
IM-8	1200.0	$\pm 5\%$	60	0.25	2.7	22.0	76
IM-8	1300.0	$\pm 5\%$	60	0.25	2.6	23.0	75
IM-8	1500.0	$\pm 5\%$	65	0.25	2.4	25.0	72
IM-8	1600.0	$\pm 5\%$	65	0.25	2.3	26.0	70
IM-8	1800.0	$\pm 5\%$	65	0.25	2.2	28.0	68
IM-8	2000.0	$\pm 5\%$	65	0.25	2.1	29.0	67
IM-8	2200.0	$\pm 5\%$	70	0.25	2.0	30.0	66
IM-8	2400.0	$\pm 5\%$	70	0.25	1.9	31.0	64
IM-8	2700.0	$\pm 5\%$	70	0.25	1.8	33.0	62
IM-8	3000.0	$\pm 5\%$	70	0.25	1.7	35.0	61
IM-8	3300.0	$\pm 5\%$	70	0.25	1.6	38.0	58
IM-8	3600.0	$\pm 5\%$	70	0.25	1.5	40.0	57

* Measured with full length lead. **Rated DC current based on maximum temperature rise as shown in table.

**STANDARD ELECTRICAL SPECIFICATIONS**

MODEL	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-9	68.0	$\pm 10\%$	70	2.5	13.0	3.3	168	IRON CORE
IM-9	82.0	$\pm 10\%$	65	2.5	11.7	3.5	162	
IM-9	100.0	$\pm 10\%$	65	2.5	10.7	3.8	155	
IM-9	120.0	$\pm 10\%$	75	0.79	9.3	4.7	142	
IM-9	150.0	$\pm 10\%$	75	0.79	8.3	5.3	132	
IM-10	3900.0	$\pm 5\%$	80	0.25	1.45	44.0	61	IRON CORE
IM-10	4300.0	$\pm 5\%$	80	0.25	1.40	46.0	59	
IM-10	4700.0	$\pm 5\%$	80	0.25	1.35	48.0	58	
IM-10	5000.0	$\pm 5\%$	80	0.25	1.30	50.0	57	
IM-10	5600.0	$\pm 5\%$	80	0.25	1.25	53.0	56	
IM-10	6200.0	$\pm 5\%$	80	0.25	1.20	56.0	54	
IM-10	6800.0	$\pm 5\%$	80	0.25	1.15	59.0	52	
IM-10	7500.0	$\pm 5\%$	80	0.25	1.10	62.0	51	
IM-10	8200.0	$\pm 5\%$	80	0.25	1.05	65.0	50	
IM-10	9100.0	$\pm 5\%$	80	0.25	1.00	68.0	49	
IM-10	10000.0	$\pm 5\%$	80	0.25	0.95	72.0	47	

* Measured with full length lead. **Rated DC current based on maximum temperature rise as shown in table.

MAXIMUM TEMPERATURE RISE

		OPERATING TEMPERATURE RANGE
IM-1	0.10 μ H to .47 μ H = 35 °C at + 90 °C ambient	- 55 °C to + 125 °C
	0.56 μ H to 1000 μ H = 15 °C at + 90 °C ambient	- 55 °C to + 105 °C
IM-2	0.022 μ H to 1.0 μ H = 35 °C at + 90 °C ambient	- 55 °C to + 125 °C
	1.2 μ H to 27 μ H = 15 °C at + 90 °C ambient	- 55 °C to + 105 °C
	33 μ H to 1000 μ H = 15 °C at + 90 °C ambient	- 55 °C to + 105 °C
IM-4	0.15 μ H to 4.7 μ H = 35 °C at + 90 °C ambient	- 55 °C to + 125 °C
	5.6 μ H to 33 μ H = 15 °C at + 90 °C ambient	- 55 °C to + 105 °C
	36 μ H to 240 μ H = 15 °C at + 90 °C ambient	- 55 °C to + 105 °C
	270 μ H to 1800 μ H = 35 °C at + 90 °C ambient	- 55 °C to + 125 °C
IM-6	0.1 μ H to 2.7 μ H = 35 °C at + 90 °C ambient	- 55 °C to + 125 °C
	3.3 μ H to 1000 μ H = 15 °C at + 90 °C ambient	- 55 °C to + 105 °C
IM-8, IM-9, IM-10	= 15 °C at + 90 °C ambient	- 55 °C to + 105 °C

DESCRIPTION

IM-2	10 μ H	$\pm 10\%$	ER	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER INFORMATION

I M 0 2	E R	1 0 0	K
MODEL	PACKING CODE	INDUCTANCE VALUE	TOL.



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