

## Inductors

Military, MIL-PRF-15305 Qualified, Type LT and Commercial, Molded



### FEATURES

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

INDUCTANCE RANGE AND MILITARY STANDARD					
MODEL	INDUCTANCE RANGE Mil. Range in bold face		CLASSIFICATION		MILITARY STANDARD
	FROM	TO	GRADE	CLASS	
IM-1	0.10 $\mu$ H	100 $\mu$ H	—	—	—
IM-2	0.022 $\mu$ H	0.082 $\mu$ H	—	—	—
	<b>0.10<math>\mu</math>H</b>	<b>1<math>\mu</math>H</b>	1	B	MS75083
	<b>1.2<math>\mu</math>H</b>	<b>27<math>\mu</math>H</b>	1	A	MS75084
IM-4	<b>33<math>\mu</math>H</b>	<b>1000<math>\mu</math>H</b>	1	A	MS75085
	<b>0.15<math>\mu</math>H</b>	<b>4.7<math>\mu</math>H</b>	1	B	MS18130
	<b>5.6<math>\mu</math>H</b>	<b>33<math>\mu</math>H</b>	1	A	MS14046
	<b>36<math>\mu</math>H</b>	<b>240<math>\mu</math>H</b>	1	A	MS90538
IM-6	0.10 $\mu$ H	2.7 $\mu$ H	1	B	MS75008 Not QPL'd
	<b>3.3<math>\mu</math>H</b>	<b>27<math>\mu</math>H</b>	1	A	MS75101
	33 $\mu$ H	220 $\mu$ H	—	—	—
IM-8	270 $\mu$ H	1000 $\mu$ H	1	A	MS90539 Not QPL'd
	1100 $\mu$ H	3600 $\mu$ H	1	A	MS90540 Not QPL'd
IM-9	68 $\mu$ H	150 $\mu$ H	1	A	MS14047 Not QPL'd
IM-10	3900 $\mu$ H	10,000 $\mu$ H	1	A	MS90541 Not QPL'd

### 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 = .25 gram maximum.

IM-2 = .30 gram maximum.

IM-4 = .65 gram maximum.

IM-6 = .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.

DIMENSIONS in inches [millimeters]					
MODEL		A (Dia.)	B	C (Typ.)	D (Dia.)
IM-1	Maximum	0.086 [2.18]	0.210 [5.33]	1.62 [41.15]	0.0215 [.546]
	Minimum	0.070 [1.78]	0.190 [4.83]	1.38 [35.05]	0.0185 [.470]
IM-2	Maximum	0.105 [2.67]	0.260 [6.60]	1.63 [41.40]	0.0215 [.546]
	Minimum	0.085 [2.16]	0.240 [6.10]	1.25 [31.75]	0.0185 [.470]
IM-4	Maximum	0.165 [4.19]	0.385 [9.78]	1.63 [41.40]	0.027 [.686]
	Minimum	0.145 [3.68]	0.365 [9.27]	1.25 [31.75]	0.023 [.584]
IM-6	Maximum	0.200 [5.08]	0.450 [11.43]	1.63 [41.40]	0.027 [.686]
	Minimum	0.180 [4.57]	0.430 [10.92]	1.25 [31.75]	0.023 [.584]
IM-8	Maximum	0.225 [5.72]	0.570 [14.48]	1.63 [41.40]	0.030 [.762]
	Minimum	0.205 [5.21]	0.550 [13.97]	1.25 [31.75]	0.026 [.660]
IM-9	Maximum	0.260 [6.60]	0.570 [14.48]	1.63 [41.40]	0.027 [.686]
	Minimum	0.240 [6.10]	0.550 [13.97]	1.25 [31.75]	0.023 [.584]
IM-10	Maximum	0.250 [6.35]	0.750 [19.05]	1.63 [41.40]	0.034 [.864]
	Minimum	0.230 [5.84]	0.730 [18.54]	1.25 [31.75]	0.030 [.762]

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



STANDARD ELECTRICAL SPECIFICATIONS										
MODEL	IND. (μH)	TOL.	MIL. STD.	MIL. TYPE	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-1	0.10	± 10%	—	—	35	25.0	680.0	0.13	895	PHENOLIC CORE
IM-1	0.12	± 10%	—	—	35	25.0	650.0	0.15	835	
IM-1	0.15	± 10%	—	—	35	25.0	560.0	0.18	760	
IM-1	0.18	± 10%	—	—	35	25.0	540.0	0.21	705	
IM-1	0.22	± 10%	—	—	30	25.0	500.0	0.25	645	
IM-1	0.27	± 10%	—	—	30	25.0	440.0	0.38	525	
IM-1	0.33	± 10%	—	—	25	25.0	410.0	0.49	460	
IM-1	0.39	± 10%	—	—	25	25.0	380.0	0.59	420	
IM-1	0.47	± 10%	—	—	25	25.0	340.0	0.62	410	
IM-1	0.56	± 10%	—	—	40	25.0	250.0	0.18	510	IRON CORE
IM-1	0.68	± 10%	—	—	40	25.0	215.0	0.20	485	
IM-1	0.82	± 10%	—	—	40	25.0	200.0	0.22	465	
IM-1	1.0	± 10%	—	—	40	25.0	190.0	0.25	435	
IM-1	1.2	± 10%	—	—	35	7.9	170.0	0.28	410	
IM-1	1.5	± 10%	—	—	40	7.9	150.0	0.49	310	
IM-1	1.8	± 10%	—	—	40	7.9	135.0	0.56	290	
IM-1	2.2	± 10%	—	—	45	7.9	130.0	0.72	257	
IM-1	2.7	± 10%	—	—	45	7.9	110.0	0.85	236	
IM-1	3.3	± 10%	—	—	45	7.9	100.0	1.2	198	
IM-1	3.9	± 10%	—	—	50	7.9	95.0	1.5	178	
IM-1	4.7	± 10%	—	—	55	7.9	88.0	2.1	150	
IM-1	5.6	± 10%	—	—	55	7.9	78.0	2.8	130	
IM-1	6.8	± 10%	—	—	55	7.9	69.0	3.2	122	
IM-1	8.2	± 10%	—	—	45	7.9	52.0	4.4	104	
IM-1	10.0	± 10%	—	—	45	7.9	47.0	5.2	95	
IM-1	12.0	± 10%	—	—	40	2.5	31.0	3.0	126	
IM-1	15.0	± 10%	—	—	40	2.5	26.0	3.4	118	
IM-1	18.0	± 10%	—	—	40	2.5	23.0	3.8	112	
IM-1	22.0	± 10%	—	—	45	2.5	20.0	4.3	105	
IM-1	27.0	± 10%	—	—	45	2.5	17.0	4.7	100	
IM-1	33.0	± 10%	—	—	45	2.5	15.0	5.2	95	
IM-1	39.0	± 10%	—	—	45	2.5	13.5	6.8	83.5	
IM-1	47.0	± 10%	—	—	45	2.5	12.5	8.2	76	
IM-1	56.0	± 10%	—	—	45	2.5	11.5	10.0	69	
IM-1	68.0	± 10%	—	—	45	2.5	10.5	11.5	64	
IM-1	82.0	± 10%	—	—	45	2.5	10.0	16.0	54.5	
IM-1	100.0	± 10%	—	—	45	2.5	9.5	17.5	52	
IM-2	0.022	± 20%	—	—	50	50.0	900.0	0.025	2400	PHENOLIC CORE
IM-2	0.027	± 10%	—	—	40	25.0	875.0	0.03	2200	
IM-2	0.033	± 10%	—	—	40	25.0	850.0	0.035	2000	
IM-2	0.039	± 10%	—	—	40	25.0	825.0	0.04	1900	
IM-2	0.047	± 10%	—	—	40	25.0	800.0	0.045	1800	
IM-2	0.056	± 10%	—	—	40	25.0	775.0	0.05	1700	
IM-2	0.068	± 10%	—	—	40	25.0	750.0	0.06	1500	
IM-2	0.082	± 10%	—	—	40	25.0	725.0	0.07	1400	
IM-2	0.10	± 10%	MS75083	LT4K	40	25.0	680.0	0.08	1350	PHENOLIC CORE
IM-2	0.12	± 10%	-1	339	40	25.0	640.0	0.09	1270	
IM-2	0.15	± 10%	-2	340	40	25.0	600.0	0.10	1200	
IM-2	0.18	± 10%	-3	341	38	25.0	550.0	0.12	1105	
IM-2	0.22	± 10%	-4	342	35	25.0	510.0	0.14	1025	
IM-2	0.27	± 10%	-5	343	33	25.0	430.0	0.16	960	
IM-2	0.33	± 10%	-6	344	33	25.0	410.0	0.22	815	
IM-2	0.39	± 10%	-7	345	30	25.0	365.0	0.30	700	
IM-2	0.47	± 10%	-8	346	30	25.0	330.0	0.35	650	
IM-2	0.56	± 10%	-9	347	30	25.0	300.0	0.50	545	
IM-2	0.68	± 10%	-10	348	30	25.0	275.0	0.60	495	
IM-2	0.82	± 10%	-11	349	28	25.0	250.0	0.85	415	
IM-2	1.0	± 10%	-12	350	28	25.0	230.0	1.0	385	
IM-2	1.2	± 10%	MS75084	LT10K	25	7.9	150.0	0.18	590	IRON CORE
IM-2	1.5	± 10%	-01	061	28	7.9	140.0	0.22	535	
IM-2	1.8	± 10%	-02	062	30	7.9	125.0	0.30	455	
IM-2	2.2	± 10%	-03	063	30	7.9	115.0	0.40	395	
IM-2	2.7	± 10%	-04	064	37	7.9	100.0	0.55	355	
IM-2	3.3	± 10%	-05	065	45	7.9	90.0	0x.85	270	
IM-2	3.9	± 10%	-06	066	45	7.9	80.0	1.0	250	
IM-2	4.7	± 10%	-07	067	45	7.9	75.0	1.2	230	
IM-2	4.7	± 10%	-08	068	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.

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**NOTE:** Products with dashes instead of Military Standard value and type designations are not qualified.

STANDARD ELECTRICAL SPECIFICATIONS										
MODEL	IND. (μH)	TOL.	MIL. STD.	MIL. TYPE	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-2	5.6	± 10%	MS75084	LT10K	50	7.9	65.0	1.8	185	IRON CORE
IM-2	6.8	± 10%	-09	069	50	7.9	60.0	2.0	175	
IM-2	8.2	± 10%	-10	070	55	7.9	55.0	2.7	155	
IM-2	10.0	± 10%	-11	071	55	7.9	50.0	3.7	130	
IM-2	12.0	± 10%	-12	072	45	2.5	40.0	2.7	155	
IM-2	15.0	± 10%	-13	073	40	2.5	35.0	2.8	150	
IM-2	18.0	± 10%	-14	074	50	2.5	30.0	3.1	145	
IM-2	22.0	± 10%	-15	075	50	2.5	25.0	3.3	140	
IM-2	27.0	± 10%	-16	076	50	2.5	20.0	3.5	135	
IM-2	33.0	± 10%	MS75085	LT10K	45	2.5	24.0	3.4	130	FERRITE CORE
IM-2	39.0	± 10%	-1	078	45	2.5	22.0	3.6	125	
IM-2	47.0	± 10%	-2	079	45	2.5	20.0	4.5	110	
IM-2	56.0	± 10%	-3	080	45	2.5	18.0	5.7	100	
IM-2	68.0	± 10%	-4	081	45	2.5	15.0	6.7	92	
IM-2	82.0	± 10%	-5	082	50	2.5	14.0	7.3	88	
IM-2	100.0	± 10%	-6	083	50	2.5	13.0	8.0	84	
IM-2	120.0	± 10%	-7	084	30	0.79	12.0	13.0	66	
IM-2	150.0	± 10%	-8	085	30	0.79	11.0	15.0	61	
IM-2	180.0	± 10%	-9	086	30	0.79	10.0	17.0	57	
IM-2	220.0	± 10%	-10	087	30	0.79	9.0	21.0	52	
IM-2	270.0	± 10%	-11	088	30	0.79	8.0	25.0	47	
IM-2	330.0	± 10%	-12	089	30	0.79	7.0	28.0	45	
IM-2	390.0	± 10%	-13	090	30	0.79	6.5	35.0	40	
IM-2	470.0	± 10%	-14	091	30	0.79	6.0	42.0	36	
IM-2	560.0	± 10%	-15	092	30	0.79	5.0	46.0	35	
IM-2	680.0	± 10%	-16	093	30	0.79	4.0	60.0	30	
IM-2	820.0	± 10%	-17	094	30	0.79	3.8	65.0	29	
IM-2	1000.0	± 10%	-18	095	30	0.79	3.4	72.0	28	
IM-4	0.15	± 20%	MS18130	LT4K	50	25.0	525.0	0.03	2450	PHENOLIC CORE
IM-4	0.22	± 20%	-1	074	50	25.0	450.0	0.055	1810	
IM-4	0.33	± 20%	-2	075	45	25.0	360.0	0.09	1400	
IM-4	0.47	± 20%	-3	076	45	25.0	310.0	0.12	1225	
IM-4	0.56	± 10%	-4	077	50	25.0	280.0	0.135	1150	
IM-4	0.68	± 10%	-5	078	50	25.0	250.0	0.15	1100	
IM-4	0.82	± 10%	-6	079	50	25.0	220.0	0.22	900	
IM-4	1.0	± 10%	-7	080	50	25.0	200.0	0.29	785	
IM-4	1.2	± 10%	-8	081	33	7.9	180.0	0.42	650	
IM-4	1.5	± 10%	-9	082	33	7.9	160.0	0.50	600	
IM-4	1.8	± 10%	-10	083	33	7.9	150.0	0.65	525	
IM-4	2.2	± 10%	-11	084	33	7.9	135.0	0.95	435	
IM-4	2.7	± 10%	-12	085	33	7.9	120.0	1.20	385	
IM-4	3.3	± 10%	-13	086	33	7.9	110.0	2.0	300	
IM-4	3.9	± 10%	-14	087	33	7.9	100.0	2.30	280	
IM-4	4.7	± 10%	-15	088	33	7.9	90.0	2.60	260	
IM-4	5.6	± 10%	MS14046	LT10K	45	7.9	60.0	0.32	495	IRON CORE
IM-4	6.8	± 10%	-1	128	50	7.9	55.0	0.50	395	
IM-4	8.2	± 10%	-2	129	50	7.9	50.0	0.60	360	
IM-4	10.0	± 10%	-3	130	55	7.9	45.0	0.90	290	
IM-4	12.0	± 10%	-4	131	65	2.5	42.0	1.10	265	
IM-4	15.0	± 10%	-5	132	65	2.5	40.0	1.40	240	
IM-4	18.0	± 10%	-6	133	75	2.5	34.0	2.25	185	
IM-4	22.0	± 10%	-7	134	75	2.5	30.0	2.50	175	
IM-4	27.0	± 10%	-8	135	60	2.5	25.0	2.60	170	
IM-4	33.0	± 10%	-9	136	65	2.5	19.0	3.0	165	

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MODEL	IND. (μH)	TOL.	MIL. STD.	MIL. TYPE	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-4	36.0	± 5%	MS90538	LT10K	60	2.5	15.5	2.50	180	IRON CORE
IM-4	39.0	± 5%	-1	001	60	2.5	14.5	2.60	176	
IM-4	43.0	± 5%	-2	002	60	2.5	13.7	2.70	172	
IM-4	47.0	± 5%	-3	003	60	2.5	13.0	2.75	170	
IM-4	51.0	± 5%	-4	004	55	2.5	12.7	2.85	167	
IM-4	56.0	± 5%	-5	005	55	2.5	12.0	3.0	164	
IM-4	62.0	± 5%	-6	006	55	2.5	11.5	3.15	160	
IM-4	68.0	± 5%	-7	007	55	2.5	11.0	3.30	156	
IM-4	75.0	± 5%	-8	008	55	2.5	10.5	3.70	147	
IM-4	82.0	± 5%	-9	009	55	2.5	10.3	3.90	143	
IM-4	91.0	± 5%	-10	010	50	2.5	10.0	4.30	136	
IM-4	100.0	± 5%	-11	011	50	2.5	9.5	4.50	133	
IM-4	110.0	± 5%	-12	012	50	2.5	8.9	4.90	128	
IM-4	120.0	± 5%	-13	013	60	0.79	8.7	5.20	124	
IM-4	130.0	± 5%	-14	014	65	0.79	8.5	5.45	121	
IM-4	150.0	± 5%	-15	015	65	0.79	8.0	6.05	114	
IM-4	160.0	± 5%	-16	016	65	0.79	7.5	6.40	111	
IM-4	180.0	± 5%	-17	017	65	0.79	7.0	6.75	108	
IM-4	200.0	± 5%	-18	018	65	0.79	6.5	7.10	106	
IM-4	220.0	± 5%	-19	019	65	0.79	6.2	7.45	103	
IM-4	240.0	± 5%	-20	020	65	0.79	5.9	7.80	101	
IM-4	270.0	± 5%	-21	021	65	0.79	5.7	11.0	129	
IM-4	300.0	± 5%	—	—	65	0.79	5.4	11.5	125	
IM-4	330.0	± 5%	—	—	65	0.79	5.1	12.0	123	
IM-4	360.0	± 5%	—	—	65	0.79	4.8	15.5	108	
IM-4	390.0	± 5%	—	—	65	0.79	4.5	16.3	105	
IM-4	430.0	± 5%	—	—	65	0.79	4.2	17.1	102	
IM-4	470.0	± 5%	—	—	65	0.79	3.9	17.9	100	
IM-4	510.0	± 5%	—	—	65	0.79	3.7	18.8	98	
IM-4	560.0	± 5%	—	—	65	0.79	3.5	24.7	85	
IM-4	620.0	± 5%	—	—	65	0.79	3.3	25.9	83	
IM-4	680.0	± 5%	—	—	55	0.79	3.1	27.2	81	
IM-4	750.0	± 5%	—	—	55	0.79	2.9	28.6	79	
IM-4	820.0	± 5%	—	—	55	0.79	2.7	30.0	77	
IM-4	910.0	± 5%	—	—	55	0.79	2.5	31.5	76	
IM-4	1000.0	± 5%	—	—	55	0.79	2.3	33.1	74	
IM-4	1100.0	± 5%	—	—	30	0.25	2.1	43.5	64	
IM-4	1200.0	± 5%	—	—	30	0.25	2.0	45.7	63	
IM-4	1300.0	± 5%	—	—	30	0.25	1.9	49.0	61	
IM-4	1500.0	± 5%	—	—	30	0.25	1.8	52.5	59	
IM-4	1600.0	± 5%	—	—	30	0.25	1.7	54.0	58	
IM-4	1800.0	± 5%	—	—	30	0.25	1.6	56.7	56	
IM-6	0.10	± 20%	MS75008	LT4K	(Not QPL'd)	25.0	510.0	.020	3600	PHENOLIC CORE
IM-6	0.12	± 20%	—	—	55	25.0	510.0	.025	3300	
IM-6	0.15	± 20%	-21	027	55	25.0	510.0	.030	3000	
IM-6	0.18	± 20%	—	—	55	25.0	450.0	.030	2900	
IM-6	0.22	± 20%	-22	028	50	25.0	415.0	.035	2800	
IM-6	0.27	± 20%	—	—	50	25.0	380.0	.050	2400	
IM-6	0.33	± 20%	-23	029	50	25.0	350.0	.065	2000	
IM-6	0.39	± 20%	—	—	50	25.0	320.0	.080	1800	
IM-6	0.47	± 20%	-24	030	50	25.0	300.0	.085	1700	
IM-6	0.56	± 10%	-25	031	50	25.0	270.0	.125	1450	
IM-6	0.68	± 10%	-26	032	45	25.0	250.0	.150	1300	
IM-6	0.82	± 10%	-27	033	40	25.0	210.0	.205	1100	
IM-6	1.0	± 10%	-28	034	40	25.0	200.0	.290	930	
IM-6	1.2	± 10%	-29	035	30	7.9	180.0	.400	785	
IM-6	1.5	± 10%	-30	036	30	7.9	170.0	.485	700	
IM-6	1.8	± 10%	-31	037	30	7.9	150.0	.740	580	
IM-6	2.2	± 10%	-32	038	30	7.9	140.0	.970	505	
IM-6	2.7	± 10%	-33	039	30	7.9	120.0	1.20	460	

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

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STANDARD ELECTRICAL SPECIFICATIONS										
MODEL	IND. ( $\mu$ H)	TOL.	MIL. STD.	MIL. TYPE	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-6	3.3	$\pm 10\%$	MS75101 -01	LT10K 169	30	7.9	70.0	0.140	990	
IM-6	3.9	$\pm 10\%$	-02	170	30	7.9	65.0	0.155	870	
IM-6	4.7	$\pm 10\%$	-03	171	30	7.9	60.0	0.210	745	
IM-6	5.6	$\pm 10\%$	-04	172	30	7.9	50.0	0.280	645	
IM-6	6.8	$\pm 10\%$	-05	173	30	7.9	50.0	0.375	560	
IM-6	8.2	$\pm 10\%$	-06	174	30	7.9	48.0	0.440	540	
IM-6	10.0	$\pm 10\%$	-07	175	30	7.9	42.0	0.605	440	
IM-6	12.0	$\pm 10\%$	-08	176	50	2.5	36.0	1.05	370	
IM-6	15.0	$\pm 10\%$	-09	177	55	2.5	30.0	1.20	310	
IM-6	18.0	$\pm 10\%$	-10	178	60	2.5	30.0	1.95	255	
IM-6	22.0	$\pm 10\%$	-11	179	60	2.5	24.0	2.20	240	
IM-6	27.0	$\pm 10\%$	-12	180	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	$\pm 5\%$	MS90539 -01	LT10K 022	(Not QPL'd) 65	0.79	5.6	8.2	110	
IM-6	300.0	$\pm 5\%$	-02	023	65	0.79	5.3	8.7	107	
IM-6	330.0	$\pm 5\%$	-03	024	65	0.79	5.0	9.1	105	
IM-6	360.0	$\pm 5\%$	-04	025	65	0.79	4.7	9.6	102	
IM-6	390.0	$\pm 5\%$	-05	026	65	0.79	4.5	10.0	100	
IM-6	430.0	$\pm 5\%$	-06	027	65	0.79	4.3	10.6	97	
IM-6	470.0	$\pm 5\%$	-07	028	65	0.79	4.0	11.1	95	
IM-6	510.0	$\pm 5\%$	-08	029	65	0.79	3.8	11.6	93	
IM-6	560.0	$\pm 5\%$	-09	030	65	0.79	3.6	12.3	91	
IM-6	620.0	$\pm 5\%$	-10	031	60	0.79	3.5	13.0	88	
IM-6	680.0	$\pm 5\%$	-11	032	60	0.79	3.4	13.7	85	
IM-6	750.0	$\pm 5\%$	-12	033	60	0.79	3.3	14.4	83	
IM-6	820.0	$\pm 5\%$	-13	034	60	0.79	3.1	15.1	81	
IM-6	910.0	$\pm 5\%$	-14	035	60	0.79	2.9	15.8	79	
IM-6	1000.0	$\pm 5\%$	-15	036	60	0.79	2.8	16.5	78	
IM-8	1100.0	$\pm 5\%$	MS90540 -01	LT10K 037	(Not QPL'd) 60	0.25	2.8	21.0	78	
IM-8	1200.0	$\pm 5\%$	-02	038	60	0.25	2.7	22.0	76	
IM-8	1300.0	$\pm 5\%$	-03	039	60	0.25	2.6	23.0	75	
IM-8	1500.0	$\pm 5\%$	-04	040	65	0.25	2.4	25.0	72	
IM-8	1600.0	$\pm 5\%$	-05	041	65	0.25	2.3	26.0	70	
IM-8	1800.0	$\pm 5\%$	-06	042	65	0.25	2.2	28.0	68	
IM-8	2000.0	$\pm 5\%$	-07	043	65	0.25	2.1	29.0	67	
IM-8	2200.0	$\pm 5\%$	-08	044	70	0.25	2.0	30.0	66	
IM-8	2400.0	$\pm 5\%$	-09	045	70	0.25	1.9	31.0	64	
IM-8	2700.0	$\pm 5\%$	-10	046	70	0.25	1.8	33.0	62	
IM-8	3000.0	$\pm 5\%$	-11	047	70	0.25	1.7	35.0	61	
IM-8	3300.0	$\pm 5\%$	-12	048	70	0.25	1.6	38.0	58	
IM-8	3600.0	$\pm 5\%$	-13	049	70	0.25	1.5	40.0	57	

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STANDARD ELECTRICAL SPECIFICATIONS										
MODEL	IND. (μH)	TOL.	MIL. STD.	MIL. TYPE	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED** DC CURRENT (mA)	
IM-9	68.0	± 10%	MS14047	LT10K	(Not QPL'd)					
			-01	138	70	2.5	13.0	3.3	168	IRON CORE
IM-9	82.0	± 10%	-02	139	65	2.5	11.7	3.5	162	
IM-9	100.0	± 10%	-03	140	65	2.5	10.7	3.8	155	
IM-9	120.0	± 10%	-04	141	75	0.79	9.3	4.7	142	
IM-9	150.0	± 10%	-05	142	75	0.79	8.3	5.3	132	
IM-10	3900.0	± 5%	MS90541	LT10K	(Not QPL'd)					
			-01	050	80	0.25	1.45	44.0	61	IRON CORE
IM-10	4300.0	± 5%	-02	051	80	0.25	1.40	46.0	59	
IM-10	4700.0	± 5%	-03	052	80	0.25	1.35	48.0	58	
IM-10	5000.0	± 5%	-04	053	80	0.25	1.30	50.0	57	
IM-10	5600.0	± 5%	-05	054	80	0.25	1.25	53.0	56	
IM-10	6200.0	± 5%	-06	055	80	0.25	1.20	56.0	54	
IM-10	6800.0	± 5%	-07	056	80	0.25	1.15	59.0	52	
IM-10	7500.0	± 5%	-08	057	80	0.25	1.10	62.0	51	
IM-10	8200.0	± 5%	-09	058	80	0.25	1.05	65.0	50	
IM-10	9100.0	± 5%	-10	059	80	0.25	1.0	68.0	49	
IM-10	10000.0	± 5%	-11	060	80	0.25	0.95	72.0	47	

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

ORDERING INFORMATION		
IM-2 MODEL	10μH INDUCTANCE VALUE	± 10% INDUCTANCE TOLERANCE

ORDERING INFORMATION - MILITARY PART NUMBER						
MS75084 MILITARY STANDARD	- 12 INDUCTANCE VALUE	OR	LT TYPE	10 GRADE AND CLASS	K FAMILY	072 ID NUMBER



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