



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

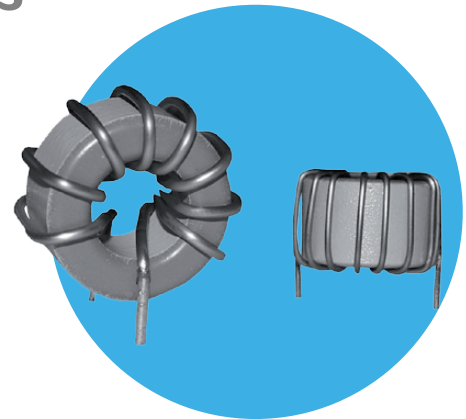


## High Power Low Cost Inductors

### Model HM53

#### Features and Benefits

- Insulation Resistance, Minimum 100 MΩ
- Operating Temperature Range -40°C to +125°C
- Ambient Temperature, Maximum 85°C
- Temperature Rise, Maximum 40°C
- Operating Frequency Up to 400kHz
- RoHS Compliant



### Specifications @ 25°C / Packaging

Part Number	Inductance <sup>(1)</sup> Control Value μH ±20%	Rated <sup>(2)</sup> Inductance μH Typ.	Rated Current Adc	DCR mΩ Max.	Dimensions (mm) L / W / Ht		Quantity Per Carton (Units)	
					Vert. Mount	Hor. Mount	Vert. Mount	Hor. Mount
HM53-0008VLF	1.23	0.8	15.0	2.5	14.0 / 8.5 / 14.0	-	660	-
HM53-001R1_LF V or H	1.44	1.1	14.0	3.0	23.0 / 14.0 / 23.0	23.0 / 23.0 / 14.0	360	300
HM53-001R6_LF V or H	1.72	1.6	8.0	4.0	16.0 / 11.0 / 16.0	16.0 / 16.0 / 11.0	560	500
HM53-001R8_LF V or H	2.6	1.8	15.0	3.5	23.0 / 14.0 / 23.0	23.0 / 23.0 / 14.0	360	180
HM53-001R9_LF V or H	2.7	1.9	10.0	5.1	17.5 / 11.4 / 17.5	17.5 / 17.5 / 11.4	660	500
HM53-002R0_LF V or H	2.8	2.0	8.5	4.8	16.0 / 9.0 / 16.0	16.0 / 16.0 / 9.0	560	500
HM53-003R0_LF V or H	4.4	3.1	13.5	4.5	24.5 / 14.0 / 24.5	24.5 / 24.5 / 14.0	360	320
HM53-005R5_LF V or H	7.9	5.5	8.5	8.9	20.5 / 13.0 / 20.5	20.5 / 20.5 / 13.0	360	180
HM53-007R8_LF V or H	11.1	7.8	5.7	12.9	17.0 / 13.5 / 17.0	17.0 / 17.0 / 13.5	450	500
HM53-009R5_LF V or H	13.5	9.5	9.0	8.1	23.0 / 19.0 / 23.0	23.0 / 23.0 / 19.0	180	210
HM53-101R5VLF	2.7	1.5	15.0	3.3	18.0 / 10.0 / 18.0	-	560	-
HM53-101R6VLF	4.0	1.6	21.0	6.5	17.0 / 9.0 / 17.0	-	560	-
HM53-103R3VLF	4.0	3.3	10.0	10.0	15.0 / 8.0 / 15.0	-	560	-
HM53-108R0_LF V or H	10.1	8.0	3.0	10.5	16.2 / 8.5 / 16.2	16.2 / 16.2 / 8.5	660	500
HM53-10180_LF V or H	25.3	17.9	2.0	20.5	16.2 / 8.0 / 16.2	16.2 / 16.2 / 8.0	500	500
HM53-10320_LF V or H	50.3	32.3	2.6	59.1	16.2 / 9.0 / 16.2	16.2 / 16.2 / 9.0	560	500
HM53-10650_LF V or H	104.0	65.2	2.4	108.6	15.5 / 12.4 / 15.5	15.5 / 15.5 / 12.4	560	250
HM53-10101VLF	121.0	100.0	5.0	67.0	27.0 / 16.5 / 27.0	-	240	-
HM53-10111_LF V or H	151.7	106.4	2.3	165.9	20.7 / 9.4 / 20.7	20.7 / 20.7 / 9.4	360	300
HM53-10171_LF V or H	250.9	175.2	2.2	224.2	20.9 / 13.0 / 20.9	20.9 / 20.9 / 13.0	360	210
HM53-10351_LF V or H	505.0	354.3	1.9	375.1	24.0 / 15.3 / 24.0	24.0 / 24.0 / 15.3	180	140
HM53-10531_LF V or H	754.4	529.2	2.4	468.1	29.8 / 17.4 / 29.8	29.8 / 29.8 / 17.4	90	90
HM53-10701_LF V or H	1000.4	701.4	2.1	679.4	29.8 / 17.1 / 29.8	29.8 / 29.8 / 17.1	90	90
HM53-208R0_LF V or H	10.6	8.0	6.0	8.3	22.0 / 9.5 / 22.0	22.0 / 22.0 / 9.5	360	300
HM53-20190_LF V or H	25.0	19.1	4.0	20.3	22.0 / 9.0 / 22.0	22.0 / 22.0 / 9.0	360	300
HM53-20350_LF V or H	50.0	35.0	4.9	29.1	21.6 / 13.6 / 21.6	21.6 / 21.6 / 13.6	360	320
HM53-20580_LF V or H	73.9	58.1	2.5	59.9	22.0 / 9.0 / 22.0	22.0 / 22.0 / 9.0	360	300
HM53-20710_LF V or H	101.7	70.8	4.3	48.5	24.0 / 16.6 / 24.0	24.0 / 24.0 / 16.6	200	140
HM53-20101_LF V or H	148.0	103.6	4.0	70.5	30.6 / 11.4 / 30.6	30.6 / 30.6 / 11.4	90	135
HM53-20171_LF V or H	251.1	175.4	4.2	96.0	31.2 / 19.0 / 31.2	31.2 / 31.2 / 19.0	90	90
HM53-20351_LF V or H	499.4	349.0	3.3	183.0	36.7 / 14.8 / 36.7	36.7 / 36.7 / 14.8	45	75
HM53-20521_LF V or H	749.3	521.9	3.4	225.4	43.3 / 18.2 / 43.3	43.3 / 43.3 / 18.2	45	90
HM53-306R8_LF V or H	9.7	6.8	11.1	8.3	22.2 / 13.9 / 22.2	22.2 / 22.2 / 13.9	180	210
HM53-30150_LF V or H	21.3	14.9	9.3	17.8	24.5 / 16.6 / 24.5	24.5 / 24.5 / 16.6	200	140
HM53-30350_LF V or H	49.6	34.9	9.4	21.9	32.3 / 18.9 / 32.3	32.3 / 32.3 / 18.9	90	90
HM53-30580_LF V or H	78.0	58.5	4.0	40.9	30.0 / 13.0 / 30.0	30.0 / 30.0 / 13.0	200	140
HM53-30690_LF V or H	97.2	67.9	7.5	31.0	37.8 / 16.8 / 37.8	37.8 / 37.8 / 16.8	45	75
HM53-30101_LF V or H	150.6	105.4	7.5	45.6	46.4 / 19.8 / 46.4	46.4 / 46.4 / 19.8	45	90
HM53-30181_LF V or H	254.4	178.2	8.1	48.2	53.7 / 24.3 / 53.7	53.7 / 53.7 / 24.3	45	45
HM53-407R0_LF V or H	10.0	7.0	13.5	7.9	25.7 / 18.0 / 25.7	25.7 / 25.7 / 18.0	45	90
HM53-40150_LF V or H	21.0	14.7	14.5	11.5	32.4 / 19.8 / 32.4	32.4 / 32.4 / 19.8	90	90
HM53-40360_LF V or H	52.3	36.5	10.2	18.3	39.0 / 16.8 / 39.0	39.0 / 39.0 / 16.8	45	75
HM53-40550_LF V or H	74.5	54.8	6.0	26.1	35.0 / 16.0 / 35.0	35.0 / 35.0 / 16.0	90	90
HM53-40710_LF V or H	101.4	71.1	9.1	21.2	48.5 / 21.8 / 48.5	48.5 / 48.5 / 21.8	45	45

#### General Note

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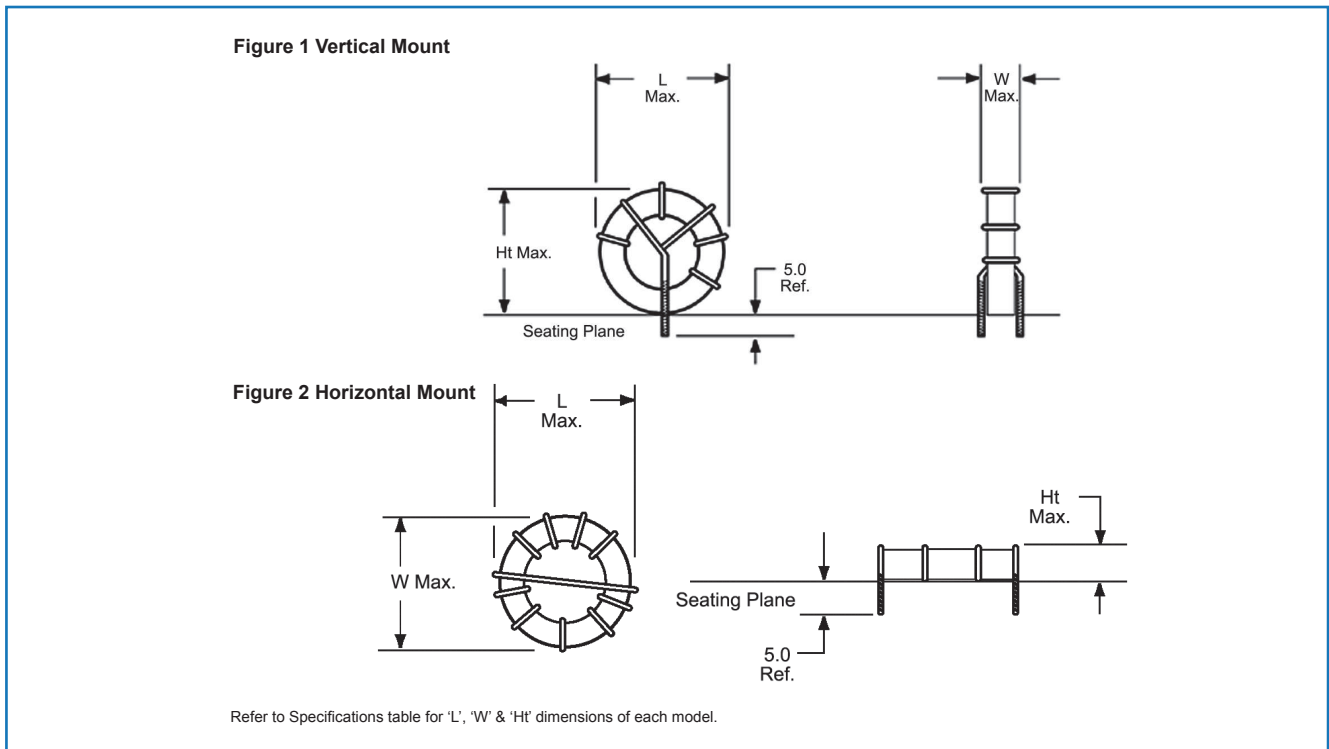
Model HM53

Specification @ 25°C / Packaging (Cont'd)

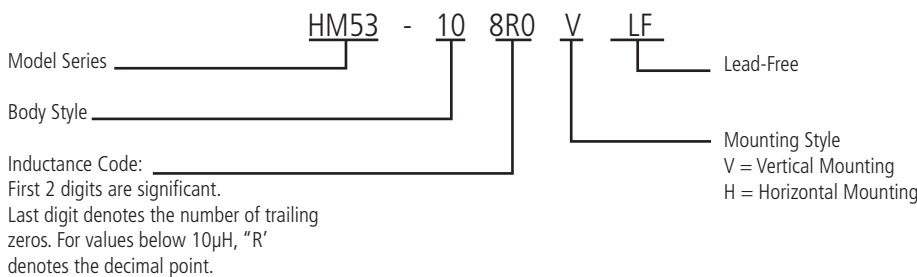
Part Number	Inductance <sup>(1)</sup> Control Value μH ±20%	Rated <sup>(2)</sup> Inductance μH Typ.	Rated Current A dc	DCR mΩ Max.	Dimensions (mm) L / W / Ht		Quantity Per Carton (Units)	
					Vert. Mount	Hor. Mount	Vert. Mount	Hor. Mount
HM53-40111_LF V or H	152.8	106.8	10.5	29.8	54.5 / 25.4 / 54.5	54.5 / 54.5 / 25.4	45	45
HM53-507R0_LF V or H	10.0	7.0	20.9	5.6	34.0 / 21.4 / 34.0	34.0 / 34.0 / 21.4	90	75
HM53-50150_LF V or H	21.2	14.8	16.0	8.2	40.5 / 18.0 / 40.5	40.5 / 40.5 / 18.0	45	75
HM53-50370_LF V or H	52.4	36.7	12.7	15.2	47.5 / 21.3 / 47.5	47.5 / 47.5 / 21.3	45	45
HM53-50550_LF V or H	77.6	54.2	10.5	21.1	47.5 / 21.3 / 47.5	47.5 / 47.5 / 21.3	45	45
HM53-50700_LF V or H	99.4	69.5	13.0	13.6	57.0 / 27.5 / 57.0	57.0 / 57.0 / 27.5	45	45
HM53-607R0_LF V or H	9.9	6.9	29.3	4.3	50.3 / 24.0 / 50.3	50.3 / 50.3 / 24.0	45	45
HM53-60130_LF V or H	19.2	13.5	29.5	4.8	59.0 / 28.0 / 59.0	59.0 / 59.0 / 28.0	45	45
HM53-60350_LF V or H	50.2	35.1	21.0	9.2	63.0 / 36.0 / 63.0	63.0 / 63.0 / 36.0	20	20

Notes: (1) Inductance is measured at 100kHz, 0.1V without DC current.  
 (2) Value with rated DC current and the operating ETop across the inductor.

Outline Dimensions (mm)



Ordering Information

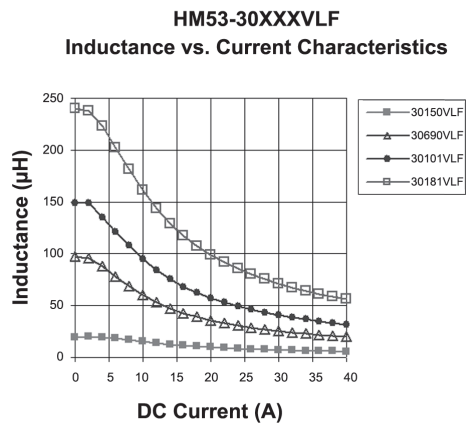
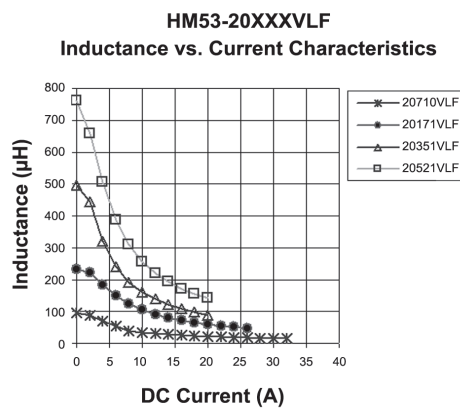
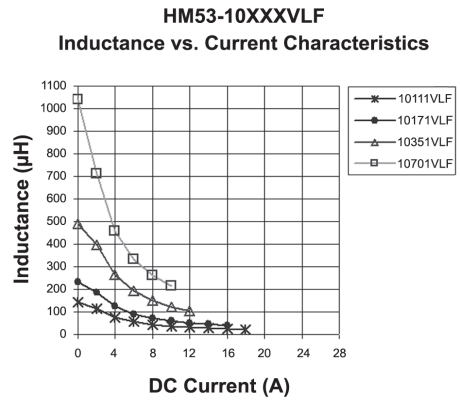
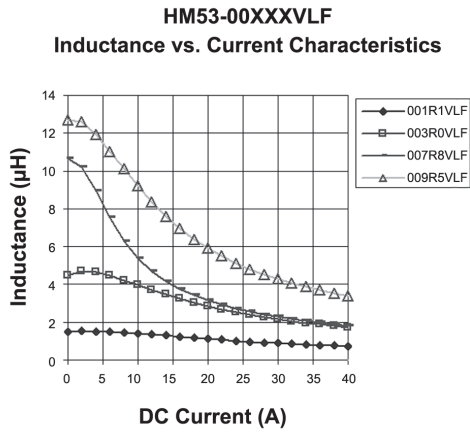


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Model HM53

Electrical Characteristics @ 25°C

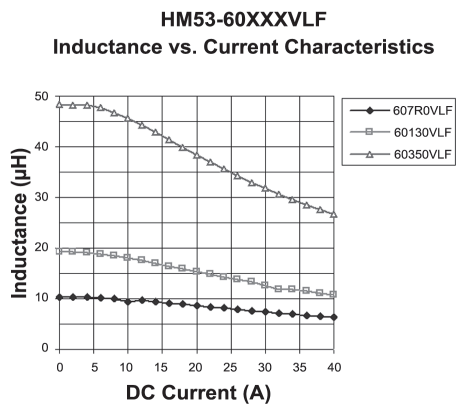
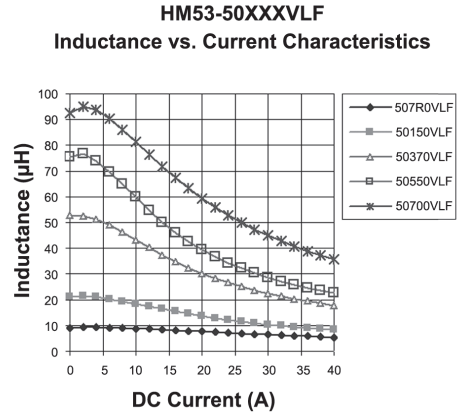
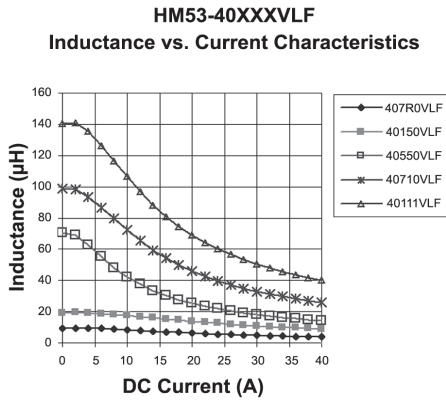


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Model HM53

Electrical Characteristics @ 25°C (Cont'd)



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