



Power Inductor Multilayer Chip Type

HDFL Large Current Series

1608/2012/2016/2520 Size



Ordering Information

HDFL 2012 F 1R0 M T - LF

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(1) Series Name

(2) Product Dimension (L*W mm)

(3) Material Code

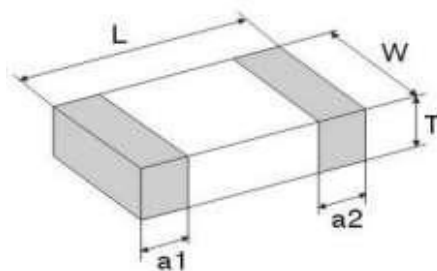
(4) Inductance Value (1R0:1.0uH / 2R2:2.2uH / 100:10uH)

(5) Inductance Tolerance (K: $\pm 10\%$ / M: $\pm 20\%$ / N: $\pm 30\%$)

(6) Packing Style (T:Taping B:Bulk)

(7) Lead Free Products

Shape & Dimensions



Size	Dimensions (mm / Inch)			
	L	W	T	a1, a2
1608 [0603]	1.60 ± 0.15 [0.063 $\pm$ 0.006]	0.80 ± 0.15 [0.031 $\pm$ 0.006]	0.80 ± 0.15 [0.031 $\pm$ 0.006]	0.30 ± 0.20 [0.012 $\pm$ 0.008]
2012 [0805]	2.00 ± 0.20 [0.079 $\pm$ 0.008]	1.25 ± 0.20 [0.049 $\pm$ 0.008]	0.85 ± 0.10 [0.033 $\pm$ 0.004]	0.50 ± 0.30 [0.020 $\pm$ 0.012]
2012 [0805]	2.00 ± 0.20 [0.079 $\pm$ 0.008]	1.25 ± 0.20 [0.049 $\pm$ 0.008]	1.15 ± 0.10 [0.045 $\pm$ 0.004]	0.50 ± 0.30 [0.020 $\pm$ 0.012]
2016 [0806]	2.00 ± 0.20 [0.079 $\pm$ 0.008]	1.60 ± 0.20 [0.063 $\pm$ 0.008]	0.80 ± 0.20 [0.031 $\pm$ 0.008]	0.50 ± 0.30 [0.020 $\pm$ 0.012]
2520 [1008]	2.50 ± 0.20 [0.098 $\pm$ 0.008]	2.00 ± 0.20 [0.079 $\pm$ 0.008]	0.85 ± 0.15 [0.030 $\pm$ 0.006]	0.50 ± 0.30 [0.020 $\pm$ 0.012]

Power Inductor Multilayer Chip Type

HDFL Large Current Series 1608 Size

Electrical Characteristics

HDFL1608 Size

HONGDA Part No.	Inductance (uH)±20%	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) ±30%	Irms (mA) Max.
HDFL1608F1R0 □	1.0	1	125	0.18	1000
HDFL1608F1R5 □	1.5	1	109	0.22	800
HDFL1608F2R2 □	2.2	1	90	0.30	700
HDFL1608F3R3 □	3.3	1	70	0.40	600
HDFL1608F4R7 □	4.7	1	50	0.50	500
HDFL1608F6R8 □	6.8	1	40	0.75	400
HDFL1608F100 □	10.0	1	33	0.80	400
HDFL1608F150 □	15.0	1	20	0.90	220
HDFL1608F220 □	22.0	1	15	1.00	200



Power Inductor Multilayer Chip Type

HDFL Large Current Series 2012 Size

Electrical Characteristics

HDFL2012 Size

HONGDA Part No.	Inductance (μ H) $\pm 20\%$	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) $\pm 30\%$	Irms (mA) Max.
HDFL2012F1R0 □	1.0	1	75	0.15	1400
HDFL2012F1R5 □	1.5	1	60	0.16	1300
HDFL2012F2R2 □	2.2	1	50	0.20	1200
HDFL2012F3R3 □	3.3	1	41	0.22	1100
HDFL2012F4R7 □	4.7	1	35	0.25	1000
HDFL2012F6R8 □	6.8	1	29	0.27	550
HDFL2012F100 □	10.0	1	24	0.50	500
HDFL2012F150 □	15.0	1	19	0.55	400
HDFL2012F220 □	22.0	1	18	0.70	300
HDFL2012C1R0 □	1.0	1	75	0.18	1000
HDFL2012C2R2 □	2.2	1	50	0.22	800
HDFL2012C4R7 □	4.7	1	35	0.35	500
HDFL2012C100 □	10.0	1	24	0.60	150

HDFL2012UF Size

HONGDA Part No.	Inductance (μ H) $\pm 20\%$	L Test Freq. (MHz)	RDC (Ω) $\pm 30\%$	Isat (mA) Max.	Irms (mA) Max.
HDFL2012UF1R0 □	1.0	1	0.15	600	1400
HDFL2012UF1R5 □	1.5	1	0.16	450	1300
HDFL2012UF2R2 □	2.2	1	0.20	350	1200
HDFL2012UF3R3 □	3.3	1	0.22	220	1100
HDFL2012UF4R7 □	4.7	1	0.25	200	1000

Power Inductor Multilayer Chip Type

HDFL Large Current Series 2016 Size

Electrical Characteristics

HDFL2016F Size

HONGDA Part No.	Inductance (uH)±20%	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) ±30%	Irms (mA) Max.
HDFL2016F1R0 □	1.0	1	60	0.11	1400
HDFL2016F1R5 □	1.5	1	50	0.15	1200
HDFL2016F2R2 □	2.2	1	40	0.15	1200
HDFL2016F3R3 □	3.3	1	30	0.20	1200
HDFL2016F4R7 □	4.7	1	20	0.25	1100

HDFL2016UF Size

HONGDA Part No.	Inductance (uH)±20%	L Test Freq. (MHz)	RDC (Ω) ±30%	Isat (mA) Max.	Irms (mA) Max.
HDFL2016UF1R0 □	1.0	1	0.11	1200	1400
HDFL2016UF1R5 □	1.5	1	0.15	700	1200
HDFL2016UF2R2 □	2.2	1	0.15	500	1200
HDFL2016UF3R3 □	3.3	1	0.20	330	1200
HDFL2016UF4R7 □	4.7	1	0.25	220	1100

Power Inductor Multilayer Chip Type

HDFL Large Current Series 2520 Size

Electrical Characteristics

HDFL2520F Size

HONGDA Part No.	Inductance (μ H) $\pm 20\%$	L Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) $\pm 30\%$	Irms (mA) Max.
HDFL2520F1R0 □	1.0	1	60	0.10	1600
HDFL2520F1R5 □	1.5	1	50	0.11	1500
HDFL2520F2R2 □	2.2	1	40	0.12	1500
HDFL2520F3R3 □	3.3	1	30	0.15	1300
HDFL2520F4R7 □	4.7	1	20	0.25	1300

HDFL2520UF Size

HONGDA Part No.	Inductance (μ H) $\pm 20\%$	L Test Freq. (MHz)	RDC (Ω) $\pm 30\%$	Isat (mA) Max.	Irms (mA) Max.
HDFL2520UF1R0 □	1.0	1	0.11	1000	1600
HDFL2520UF1R5 □	1.5	1	0.12	800	1500
HDFL2520UF2R2 □	2.2	1	0.14	600	1500
HDFL2520UF4R7 □	4.7	1	0.25	300	1300