

Multilayer Chip Ferrite Large Current Induct HPB 1608-3216Series



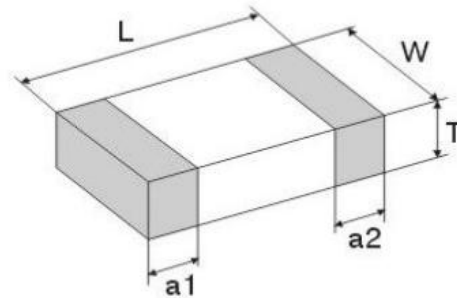
Features

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC and High IDC

Applications

- Cellular platform DC-DC converter circuit
- Portable AV equipment (digital camera, DVD Type)
- Cellular platform(handset Type)
- Memex(computer Type)

Configurations & Dimensions



Dimensions

Chip Size

Units:mm

TYPE	L	W	T	a1	a2
HPB1608 (0603)	1.6±0.15	0.8±0.15	0.8±0.15	0.30±0.20	0.30±0.20
HPB2012 (0805)	2.0±0.2	1.25±0.2	0.85±0.2	0.50±0.30	0.50±0.30
HPB2016 (0806)	2.0±0.2	1.6±0.2	0.85±0.2	0.50±0.30	0.50±0.30
HPB2520 (1008)	2.5±0.2	2.0±0.2	0.85±0.15	0.50±0.30	0.50±0.30
HPB3216 (1206)	3.2±0.2	1.6±0.2	1.10±0.3	0.50±0.30	0.50±0.30

Multilayer Chip Ferrite Large Current Induct

HPB 1608F/C Series

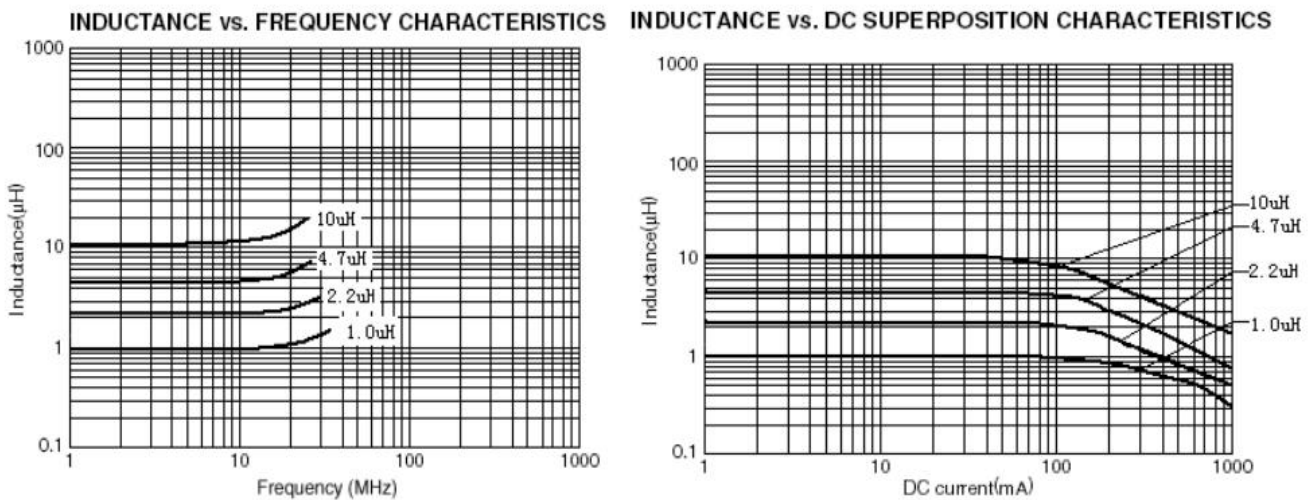


Specifications HPB1608F/C

Part Number	Inductance (uH)	Tolerance (20%)	Ltest Freq (MHz)	SRF (MHz) min	DCR (Ω) ±30%	Ir (mA) /max
HPB1608F-1R0M	1.0	M	1	125	0.18	1000
HPB1608F-1R5M	1.5	M	1	109	0.22	800
HPB1608F-2R2M	2.2	M	1	90	0.30	700
HPB1608F-3R3M	3.3	M	1	70	0.40	600
HPB1608F-4R7M	4.7	M	1	50	0.50	500
HPB1608F-6R8M	6.8	M	1	40	0.53	400
HPB1608F-100M	10.0	M	1	33	0.55	400
HPB1608F-150M	15.0	M	1	20	0.90	220
HPB1608F-220M	22.0	M	1	15	1.00	200
HPB1608C-1R0M	1.0	M	1	125	0.30	600
HPB1608C-1R5M	1.5	M	1	109	0.35	550
HPB1608C-2R2M	2.2	M	1	90	0.45	500
HPB1608C-3R3M	3.3	M	1	70	0.65	400
HPB1608C-4R7M	4.7	M	1	50	1.00	300

Characteristic curve

HPB1608F(0603) Series



Multilayer Chip Ferrite Large Current Induct

HPB 2012F/C Series

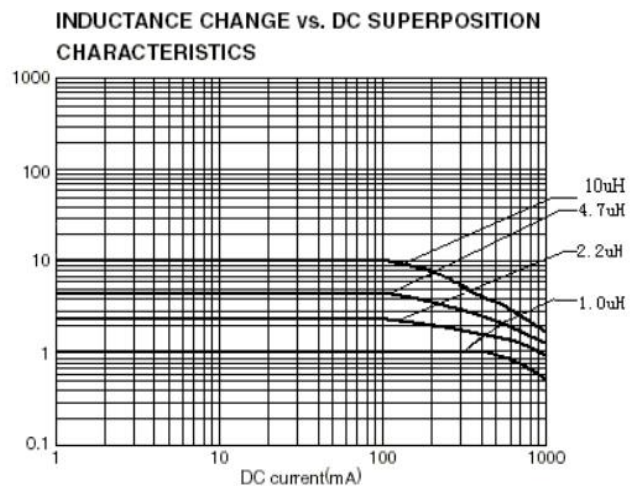
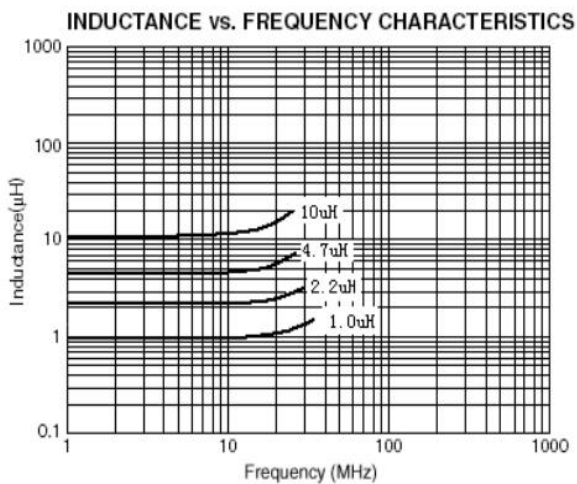


Specifications HPB2012F/C

Part Number	Inductance (uH)	Tolerance (20%)	Ltest Freq (MHz)	SRF (MHz) min	DCR (Ω) ±30%	Ir (mA) /max
HPB2012F-1R0M	1.0	M	1	75.0	0.15	1400
HPB2012F-1R5M	1.5	M	1	60.0	0.16	1300
HPB2012F-2R2M	2.2	M	1	50.0	0.20	1200
HPB2012F-3R3M	3.3	M	1	41.0	0.22	1100
HPB2012F-4R7M	4.7	M	1	35.0	0.25	1000
HPB2012F-6R8M	6.8	M	1	29.0	0.27	550
HPB2012F-100M	10.0	M	1	24.0	0.32	500
HPB2012F-150M	15.0	M	1	19.0	0.50	400
HPB2012F-220M	22.0	M	1	18.0	0.70	300
HPB2012C-1R0M	1.0	M	1	75.0	0.18	1000
HPB2012C-1R5M	1.5	M	1	60.0	0.19	900
HPB2012C-2R2M	2.2	M	1	50	0.22	800
HPB2012C-3R3M	3.3	M	1	41	0.25	600
HPB2012C-4R7M	4.7	M	1	35	0.35	500

Characteristic curve

HPB2012F(0805) Series



Multilayer Chip Ferrite Large Current Induct

HPB 2016F/C Series

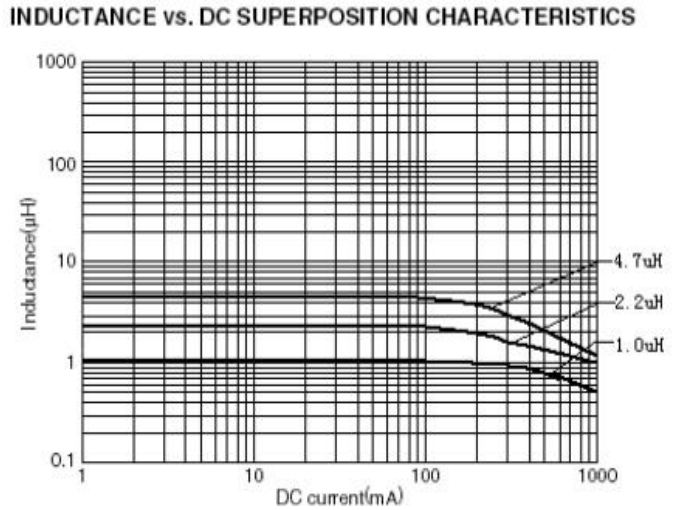
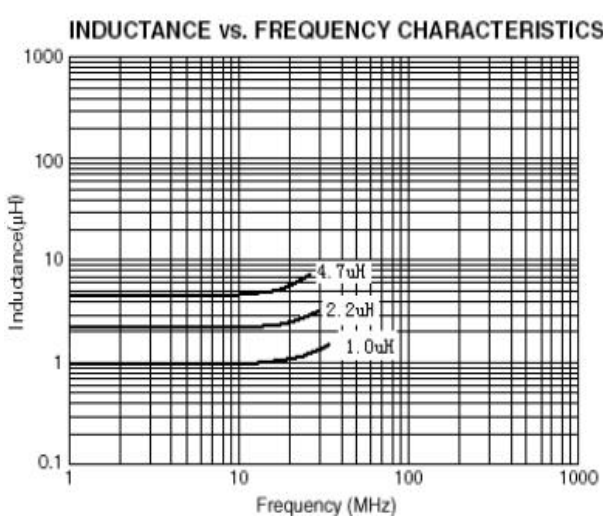


Specifications HPB2016F/C

Part Number	Inductance (uH)	Tolerance (20%)	Ltest Freq (MHz)	SRF (MHz) min	DCR (Ω) ±30%	Ir (mA) /max
HPB2016F-1R0M	1.0	M	1	60	0.11	1400
HPB2016F-1R5M	1.5	M	1	50	0.15	1200
HPB2016F-2R2M	2.2	M	1	40	0.20	1200
HPB2016F-3R3M	3.3	M	1	30	0.30	1200
HPB2016F-4R7M	4.7	M	1	20	0.35	1100
HPB2016C-1R0M	1.0	M	1	60	0.10	1200
HPB2016C-1R5M	1.5	M	1	50	0.13	1000
HPB2016C-2R2M	2.2	M	1	40	0.15	900
HPB2016C-3R3M	3.3	M	1	30	0.20	800
HPB2016C-4R7M	4.7	M	1	20	0.30	700

Characteristic curve

HPB2016F(0806) Series



Multilayer Chip Ferrite Large Current Induct

HPB 2520F/C Series



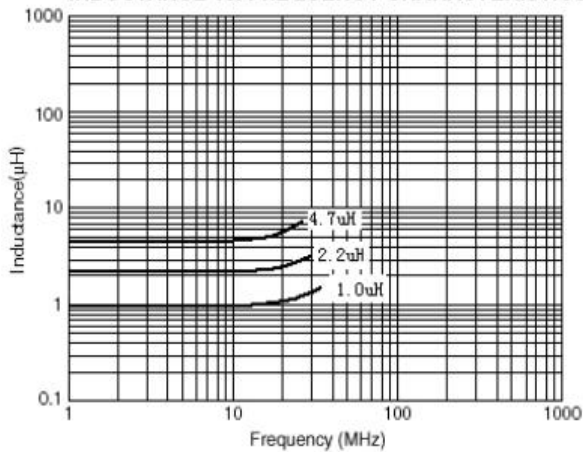
Specifications HPB2520F/C

Part Number	Inductance (uH)	Tolerance (20%)	Ltest Freq (MHz)	SRF (MHz) min	DCR (Ω) ±30%	Ir (mA) /max
HPB2520F-1R0M	1.0	M	1	60.0	0.15	1600
HPB2520F-1R5M	1.5	M	1	50.0	0.18	1500
HPB2520F-2R2M	2.2	M	1	40.0	0.25	1300
HPB2520F-3R3M	3.3	M	1	30.0	0.30	1200
HPB2520F-4R7M	4.7	M	1	20.0	0.32	1100
HPB2520C-1R0M	1.0	M	1	60.0	0.11	1100
HPB2520C-1R5M	1.5	M	1	50.0	0.13	1000
HPB2520C-2R2M	2.2	M	1	40	0.15	950
HPB2520C-3R3M	3.3	M	1	30	0.18	900
HPB2520C-4R7M	4.7	M	1	20	0.25	850

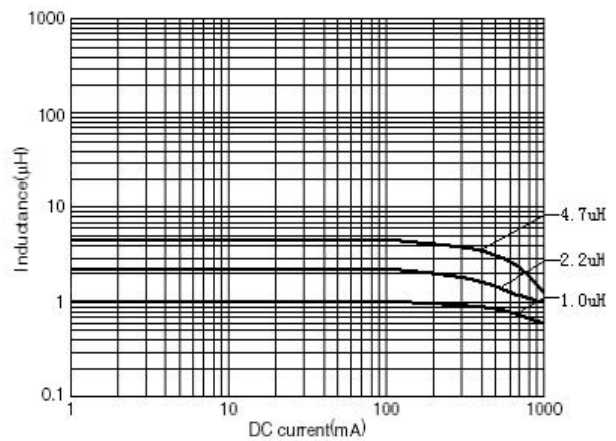
Characteristic curve

HPB2520F(1008) Series

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



Multilayer Chip Ferrite Large Current Induct

HPB 3216F/C Series



Specifications HPB3216F/C

Part Number	Inductance (uH)	Tolerance (20%)	Ltest Freq (MHz)	SRF (MHz) min	DCR (Ω) ±30%	Ir (mA) /max
HPB3216F-1R0M	1.0	M	1	90	0.10	1600
HPB3216F-1R5M	1.5	M	1	75	0.12	1500
HPB3216F-2R2M	2.2	M	1	58	0.15	1300
HPB3216F-3R3M	3.3	M	1	49	0.20	1200
HPB3216F-4R7M	4.7	M	1	41	0.32	980
HPB3216F-6R8M	6.8	M	1	34	0.41	830
HPB3216F-100M	10.0	M	1	28	0.50	670
HPB3216C-1R0M	2.2	M	1	90	0.12	1400
HPB3216C-1R5M	3.3	M	1	75	0.15	1300
HPB3216C-2R2M	4.7	M	1	58	0.20	1200
HPB3216C-3R3M	1.0	M	1	49	0.25	1100
HPB3216C-4R7M	1.5	M	1	41	0.45	850

Characteristic curve

HPB3216F/C(1206) Series

