

SMD Multilayer Power Inductors – GMPI-201610 PE2 Series

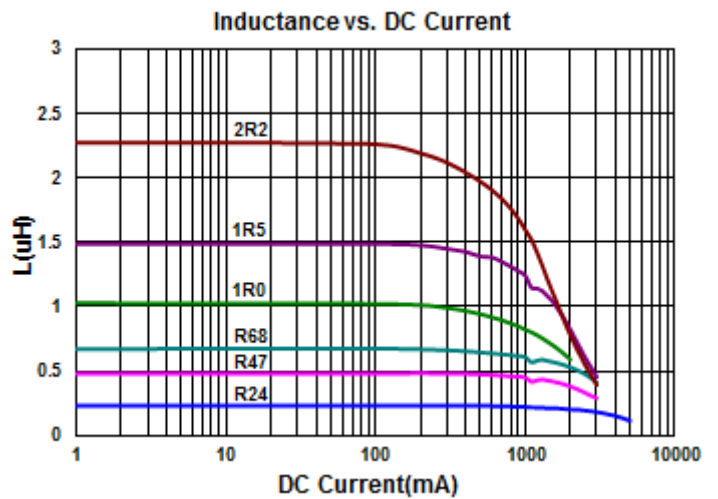
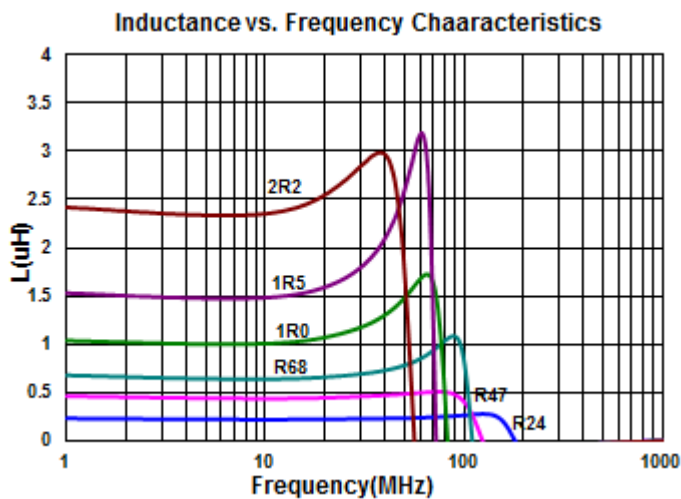
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±25%	Isat(mA) Max(Typ.)	Irms(mA) Max(Typ.)
GMPI-201610-R24□-PE2	0.24	20, 30	3	0.023	3600(4000)	3500(4200)
GMPI-201610-R47□-PE2	0.47	20, 30	3	0.037	2500(2900)	2600(3100)
GMPI-201610-R68□-PE2	0.68	20, 30	3	0.065	2500(2800)	2400(2800)
GMPI-201610-1R0□-PE2	1.0	20, 30	3	0.068	1500(1900)	2200(2600)
GMPI-201610-1R5□-PE2	1.5	20, 30	3	0.100	1500(1800)	1600(1900)
GMPI-201610-2R2□-PE2	2.2	20, 30	3	0.210	1000(1300)	1500(1800)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
L : Agilent HP4287A+16197A, 3MHz 200mV
RDC : HP 4338B, or equivalent

Test Instruments : HP4287A Inductance / Material Analyzer



SMD Multilayer Power Inductors –GMPI-201610 PB6 Series

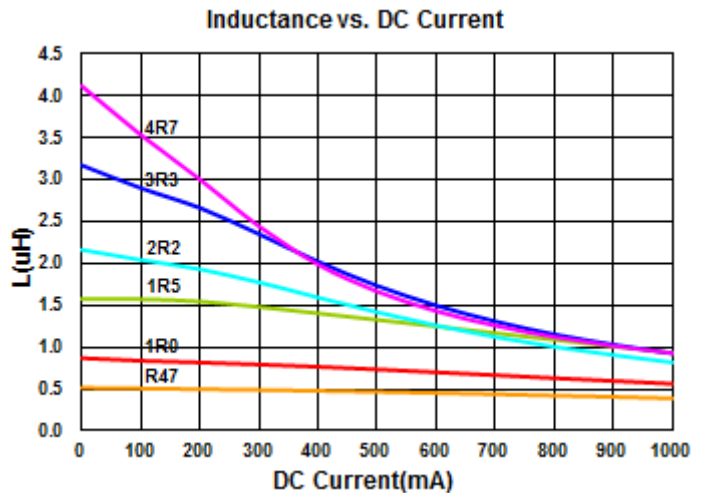
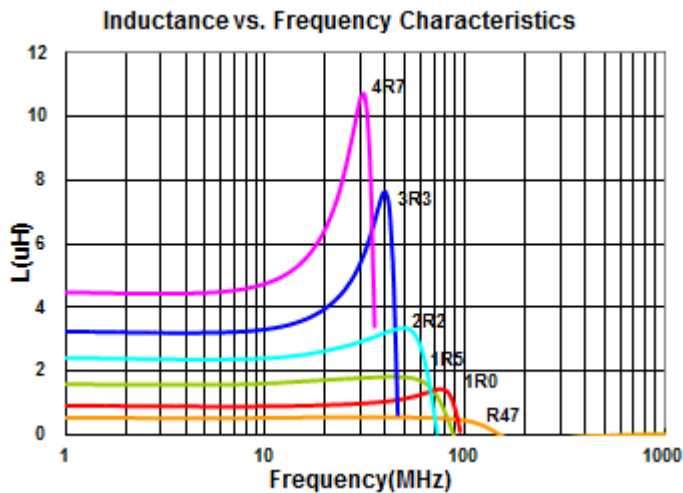
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±25%	Isat (mA) Max	Irms (mA) Max
GMPI-201610-R47□-PB6	0.47	20, 30	3	0.06	1200	1600
GMPI-201610-1R0□-PB6	1.0	20, 30	3	0.085	850	1300
GMPI-201610-1R5□-PB6	1.5	20, 30	3	0.11	600	1200
GMPI-201610-2R2□-PB6	2.2	20, 30	3	0.11	400	1200
GMPI-201610-3R3□-PB6	3.3	20, 30	3	0.12	350	850
GMPI-201610-4R7□-PB6	4.7	20, 30	3	0.14	200	1100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

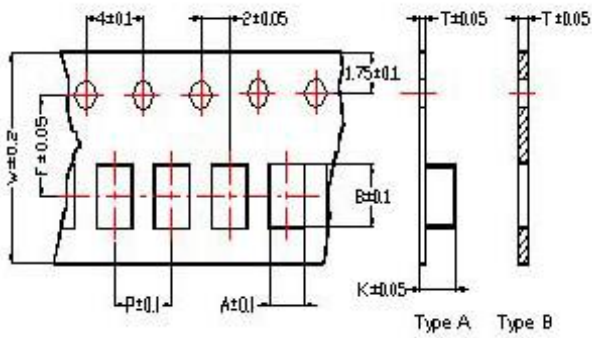
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
L : Agilent HP4287A+16197A, 3MHz 200mV
RDC : HP 4338B, or equivalent

Test Instruments : HP4287A Inductance / Material Analyzer

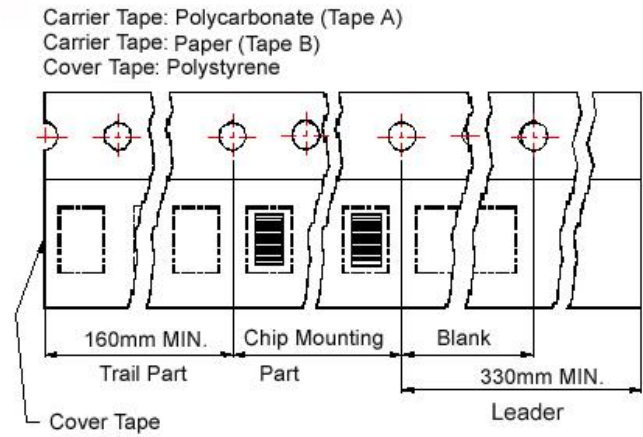


Packaging Specifications

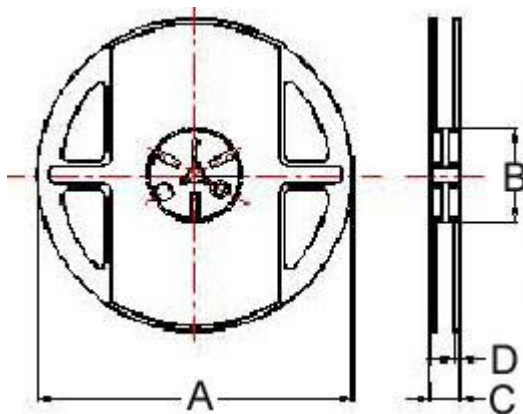
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS / REEL
	A	B	T	W	P	F	K	Tape Type	A	B	C	D	
1608GX	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	1.5	10000
1608FZ	1.05	1.85	0.75	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
1608DZ	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
2012C5	1.45	2.25	0.22	8.0	4.0	3.5	1.04	A	178	60	12	1.5	4000
2012G5	1.42	2.25	0.22	8.0	4.0	3.5	0.80	A	178	60	12	1.5	4000
201210	1.45	2.25	0.22	8.0	4.0	3.5	1.04	A	178	60	12	1.5	4000
201610	1.80	2.20	0.22	8.0	4.0	3.5	1.15	A	178	60	12	1.5	3000
252010	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
252012	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000

Multilayer Power Inductors



The GMPI Series is a miniature type of multilayer power inductor constructed using low-loss ferrite material to support high-speed switching frequencies. The compact size and high efficiency is ideal for DC-DC converter applications in space-limited boards.

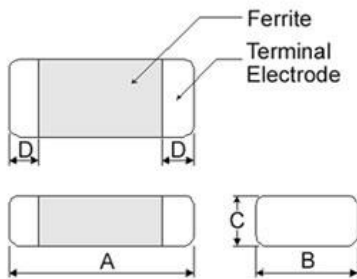
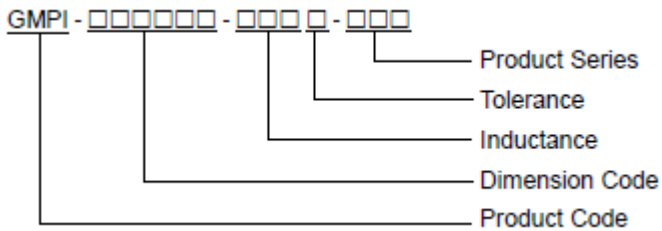
Features

- RoHS, Halogen Free and REACH Compliance
- Small size
- Low profile
- High current
- Magnetically shielded configuration allowing for high density mounting

Applications

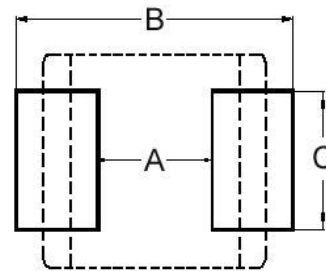
- DC-DC converters
- Power modules
- Cellular phones
- DSC, PND, DVD
- Wireless card and other electronic devices

Product Identification



Dimensions in mm

TYPE	A	B	C	D
1608GX	1.6±0.15	0.8±0.15	0.5±0.05	0.3±0.2
1608FZ	1.6±0.15	0.8±0.15	0.6±0.15	0.3±0.2
1608DZ	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012G5	2.0±0.20	1.25±0.20	0.55 Max.	0.5±0.3
201210	2.0±0.20	1.25±0.20	1.0 Max.	0.5±0.3
201610	2.0±0.20	1.6±0.20	1.0 Max.	0.5±0.3
252010	2.5±0.20	2.0±0.20	1.0 Max.	0.6±0.2
252012	2.5±0.20	2.0±0.20	1.2 Max.	0.6±0.2



Dimensions in mm

TYPE	A	B	C
1608GX	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
1608FZ	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
1608DZ	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
2012G5	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
201210	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
201610	0.8 ~ 1.2	2.1 ~ 2.7	1.6 ~ 2.0
252010	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6
252012	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6