

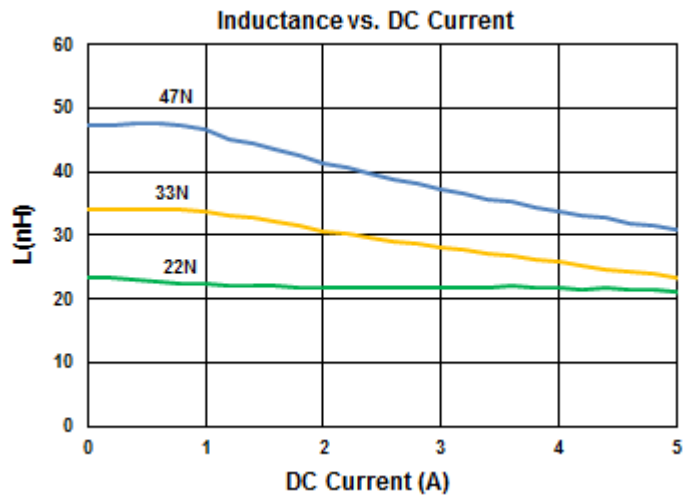
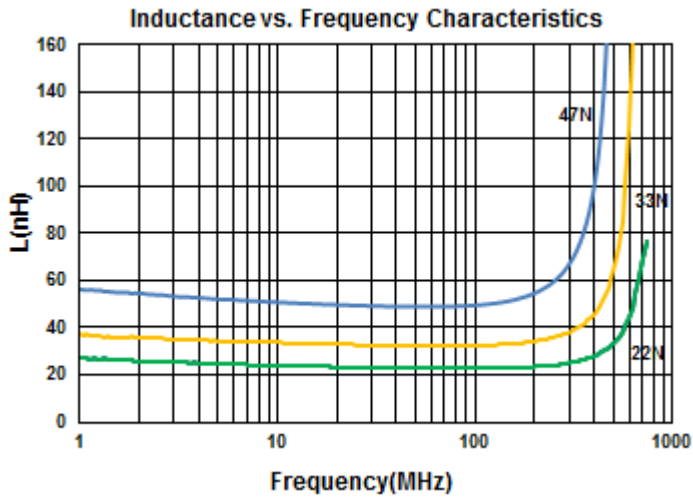
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Max	Irms (mA) Max
GMPI-2012C5-22N□-PB2	0.022	10, 20	50	0.044	3000	2000
GMPI-2012C5-33N□-PB2	0.033	10, 20	50	0.050	2700	1800
GMPI-2012C5-47N□-PB2	0.047	10, 20	50	0.058	2400	1600

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L : Agilent E4991A+16197A, 50MHz 200mV
 RDC : HP 4338B, or equivalent

Test Instruments : E4991A Inductance / Material Analyzer



Multilayer Power Inductors



The GMPI-2012C5 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.

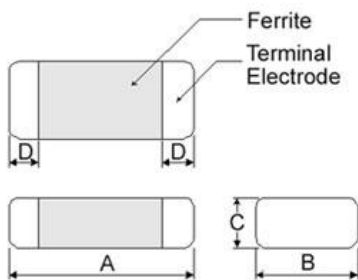
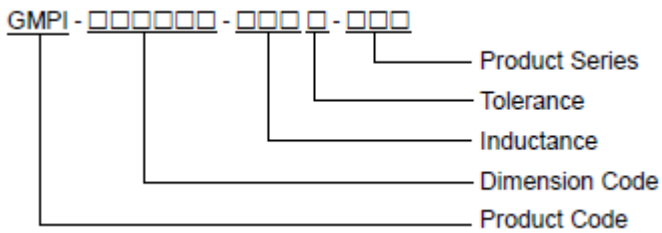
Features

- For High Frequency SW (15MHz to 200MHz)
- Bias Current Characteristics improved.
- Low Power loss
- High DC Bias
- High Current
- Low ACR

Applications

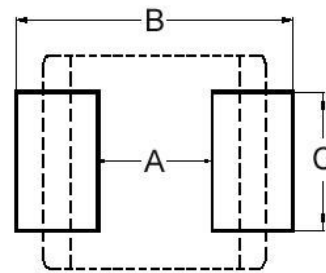
- High Frequency DC/DC converter.

Product Identification



Dimensions in mm

TYPE	A	B	C	D
2012C5	2.0±0.20	1.25±0.20	0.95 Max.	0.5±0.3

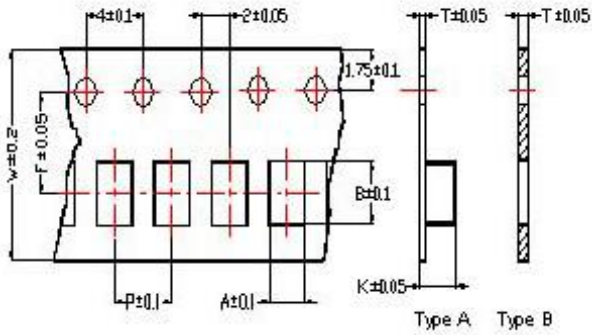


Dimensions in mm

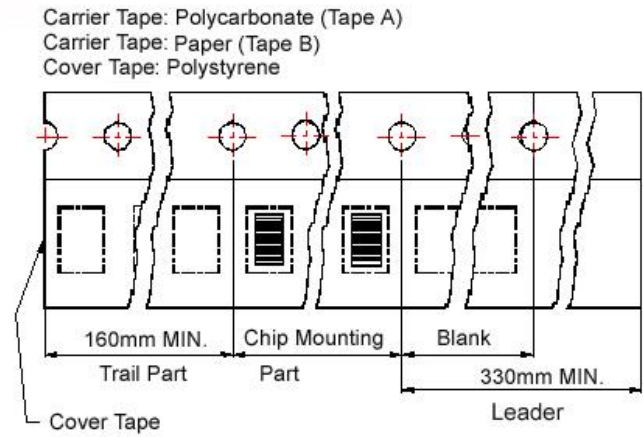
TYPE	A	B	C
2012C5	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4

Packaging Specifications

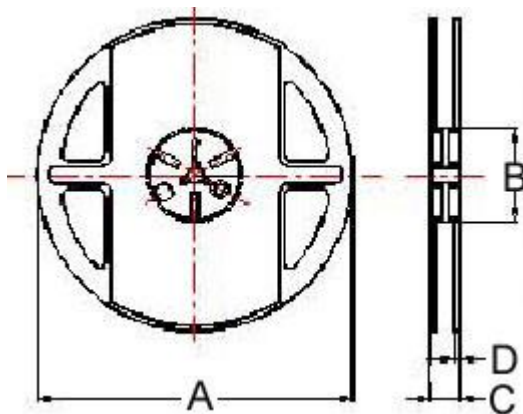
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Tape Type	Reel Dimensions				Quantity PCS / REEL
	A	B	T	W	P	F	K	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	