

IML Series



Inductor ▼ Multilayer ▼ Chip



Features:

- Designed for EMI/RFI suppression, timing, and smoothing in high frequency applications
- Wide inductance range
- Excellent long-term stability and high reliability
- Reliable monolithic structure for a closed magnetic path
- Used in wireless communications products and computer peripherals
- Suitable for high density mounting when PCB real estate is at a premium
- Nickel barrier terminations are flow, IR reflow, and vapor phase solderable

Summary of Specifications:

- Multilayer Chip Inductor for EMI/RFI suppression
- Nominal inductance range: 0.22 μ H to 220 μ H
- Operating temperature range: -20°C to +100°C
- Standard capacitance tolerance: \pm 10%, \pm 20%
- EIA case size range: 1206 and 1210

Part Numbering System

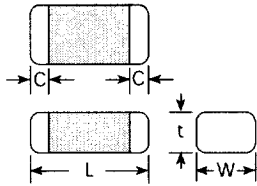
IML	474	M	1206	04	P	13
Series Code	Inductance	Tolerance	Case Size	Thickness	Package	Reel Size
	0.22 μ H to 220 μ H (Expressed in μ H where the first two digits identify the first and second significant figures of inductance and the third digit identifies the multiplier)	K = \pm 10% M = \pm 20%	See Table	See Table	B = Bulk P = Plastic Tape/Reel	7 = 7" Reel 10 = 10" Reel 13 = 13" Reel

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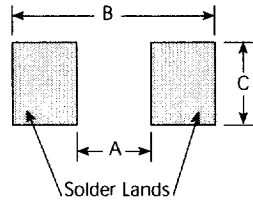
Electrical Characteristics							
Part Number	Inductance (µH)	Inductance Tolerance	Q min	LQ Test Frequency (MHz)	Self Resonant Frequency (MHz) min	DC Resistance (Ω) max	DC Rated Current (mA) max
IML224M120602	0.22	±10% or ±20%	20	25	150.0	0.65	100
IML274M120602	0.27	±10% or ±20%	20	25	136.0	0.65	100
IML334M120602	0.33	±10% or ±20%	20	25	125.0	0.75	100
IML394M120604	0.39	±10% or ±20%	25	25	110.0	0.65	100
IML474M120604	0.47	±10% or ±20%	25	25	105.0	0.75	100
IML564M120604	0.56	±10% or ±20%	25	25	95.0	0.85	100
IML684M120604	0.68	±10% or ±20%	25	25	80.0	0.95	100
IML824M120604	0.82	±10% or ±20%	25	25	75.0	1.05	100
IML105M120604	1.0	±10% or ±20%	25	10	70.0	0.65	100
IML125M120604	1.2	±10% or ±20%	25	10	60.0	0.75	100
IML155M120604	1.5	±10% or ±20%	30	10	55.0	0.65	50
IML185M120604	1.8	±10% or ±20%	30	10	55.0	0.75	50
IML225M120604	2.2	±10% or ±20%	30	10	50.0	0.85	50
IML275M120604	2.7	±10% or ±20%	30	10	45.0	0.95	50
IML335M120604	3.3	±10% or ±20%	30	10	40.0	1.05	50
IML395M120604	3.9	±10% or ±20%	30	10	38.0	1.15	50
IML475M120604	4.7	±10% or ±20%	30	10	36.0	1.35	50
IML565M120604	5.6	±10% or ±20%	30	10	33.0	0.95	25
IML685M120604	6.8	±10% or ±20%	30	4.0	22.0	1.05	25
IML825M120604	8.2	±10% or ±20%	30	4.0	20.0	1.15	25
IML106M120604	10.0	±10% or ±20%	30	4.0	18.0	1.35	25
IML126M120604	12.0	±10% or ±20%	30	2.0	17.0	1.85	15
IML156M120604	15.0	±10% or ±20%	30	2.0	15.0	0.85	5
IML186M120604	18.0	±10% or ±20%	30	1.0	14.0	1.05	5
IML226M120604	22.0	±10% or ±20%	30	1.0	13.0	1.15	5
IML276M120604	27.0	±10% or ±20%	30	1.0	11.0	1.25	5
IML336M120604	33.0	±10% or ±20%	30	0.4	10.0	1.65	5
IML396M121004	39.0	±10% or ±20%	30	0.4	9.0	1.85	5
IML476M121004	47.0	±10% or ±20%	30	0.4	8.0	2.00	5
IML566M121004	56.0	±10% or ±20%	30	0.4	7.0	2.15	5
IML686M121004	68.0	±10% or ±20%	30	2.0	6.5	4.20	10
IML826M121010	82.0	±10% or ±20%	30	2.0	6.0	4.50	10
IML107M121010	100.0	±10% or ±20%	30	1.0	5.5	4.80	10
IML127M121010	120.0	±10% or ±20%	30	0.2	4.5	2.80	5
IML157M121010	150.0	±10% or ±20%	30	0.2	4.5	3.50	5
IML187M121010	180.0	±10% or ±20%	30	0.2	4.0	3.80	5
IML227M121010	220.0	±10% or ±20%	30	0.2	4.0	4.20	5

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IML Dimensions



Recommended Solder Land

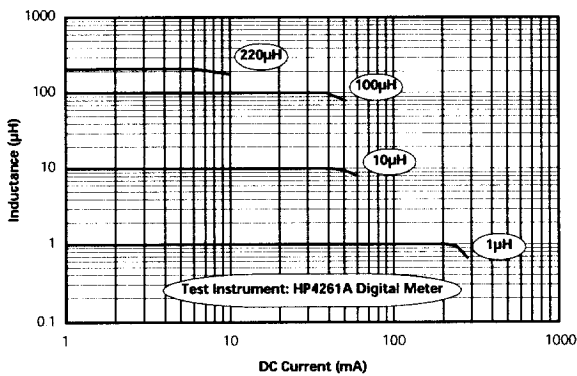


Mechanical Specifications

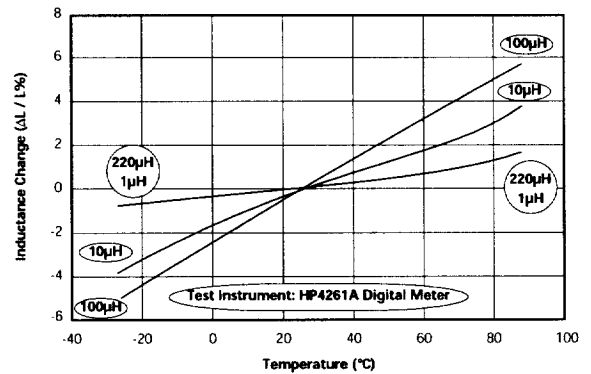
dimensions in mm

Inductor Dimensions					Solder Land Dimensions		
Type	Length (L)	Width (W)	Thickness (t)	Termination (C)	Pad Spacing (A)	Pad Length (B)	Pad Width (C)
IML120602	3.2 ±0.20	1.6 ±0.20	0.6 ±0.20	0.50 ±0.30	2.0	4.2-5.2	1.2
IML120604	3.2 ±0.20	1.6 ±0.30	1.1 ±0.30	0.50 ±0.30	2.0	4.2-5.2	1.2
IML121004	3.2 ±0.20	2.5 ±0.30	1.1 ±0.30	0.50 ±0.30	2.0	5.5-6.5	1.8
IML121010	3.2 ±0.20	2.5 ±0.30	2.5 ±0.30	0.50 ±0.30	2.0	5.5-6.5	1.8

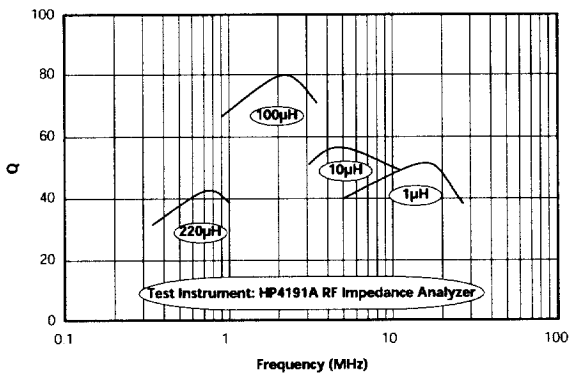
Inductance / DC Current



Inductance / Temperature

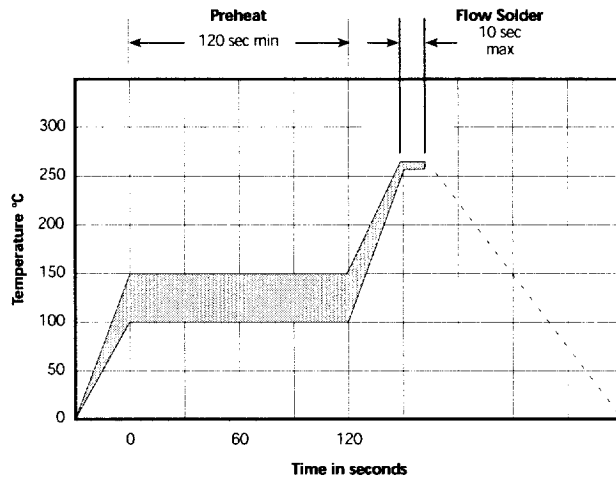


Q / Frequency

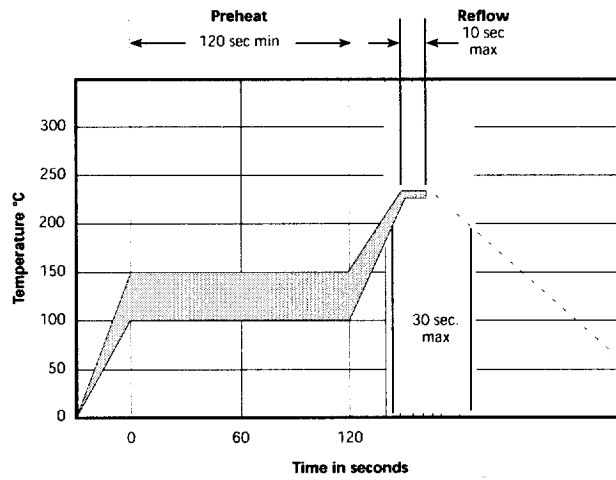


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Flow Solder Profile



IR Reflow Solder Profile



Vapor Phase Solder Profile

