

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



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

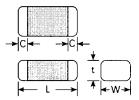
Part Numbering System

IML	474	M	1206	04	P	13
Series Code	Inductance	<u>Tolerance</u>	Case Size	Thickness	<u>Package</u>	Reel Size
	0.22µH to 220µH	K = ±10%	See Table	See Table	B = Bulk	Null = 7" Reel
		$M = \pm 20\%$			P = Plastic Tape/Reel	10 = 10" Ree
	(Expressed in µH where					13 = 13" Ree
	the first two digits					
	identify the first and					
	second significant					
	figures of inductance					
	and the third digit					REV 4-2-99
	identifies the multiplier)					



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

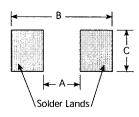
IML Dimensions



IML121010

Recommended Solder Land

0.50 ±0.30



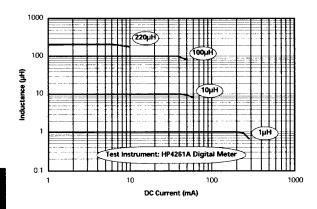
Mechanical Specifications dimensions in mm Inductor Dimensions Solder Land Dimensions Length Width Pad Length Pad Width Thickness Termination Pad Spacing Type (L) (W) (t) (C) (A) (B) (C) IML120602 3.2 ±0.20 1.6 ±0.20 0.6 ±0.20 0.50 ± 0.30 2.0 4.2~5.2 1.2 IML120604 3.2 ± 0.20 1.6 ± 0.30 1.1 ±0.30 0.50 ±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

 2.5 ± 0.30

Inductance / DC Current

3.2 ±0.20

2.5 ±0.30

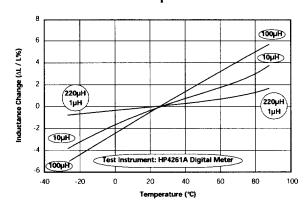


Inductance / Temperature

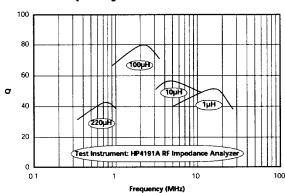
2.0

5.5~6.5

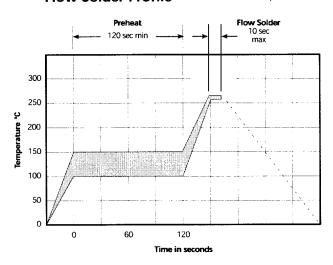
1.8



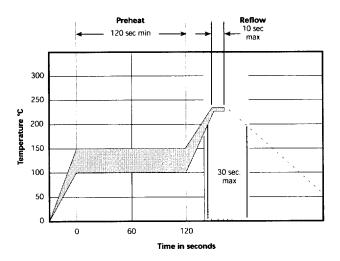
Q / Frequency



Flow Solder Profile



IR Reflow Solder Profile



Vapor Phase Solder Profile

