

# SURFACE-MOUNT MULTI-LAYER HIGH CURRENT INDUCTORS AIML-0805UH SERIES



## 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

## COMMON APPLICATIONS:

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

## ELECTRICAL CHARACTERISTICS:

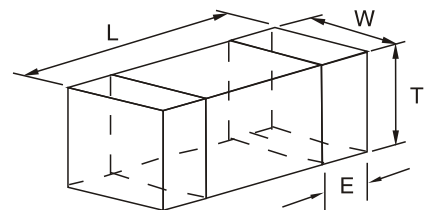
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805UH-47NM	0.047	1	280	0.10	1100
AIML0805UH-56NM	0.056	1	280	0.10	1100
AIML0805UH-68NM	0.068	1	250	0.15	1100
AIML0805UH-82NM	0.082	1	250	0.15	1100
AIML0805UH-R10M	0.10	1	210	0.15	1100
AIML0805UH-R12M	0.12	1	200	0.15	1100
AIML0805UH-R15M	0.15	1	175	0.15	1100
AIML0805UH-R18M	0.18	1	160	0.15	1100
AIML0805UH-R22M	0.22	1	150	0.15	1100
AIML0805UH-R27M	0.27	1	130	0.15	1100
AIML0805UH-R33M	0.33	1	120	0.15	1100
AIML0805UH-R39M	0.39	1	110	0.15	1100
AIML0805UH-R47M	0.47	1	100	0.15	1100
AIML0805UH-R56M	0.56	1	100	0.36	800
AIML0805UH-R68M	0.68	1	95	0.36	800
AIML0805UH-R82M	0.82	1	90	0.36	800
AIML0805UH-1R0M	1.0	1	75	0.24	800
AIML0805UH-1R2M	1.2	1	65	0.24	800
AIML0805UH-1R5M	1.5	1	60	0.30	700
AIML0805UH-1R8M	1.8	1	55	0.36	600
AIML0805UH-2R2M	2.2	1	50	0.36	600
AIML0805UH-2R7M	2.7	1	45	0.36	600
AIML0805UH-3R3M	3.3	1	41	0.40	350
AIML0805UH-3R9M	3.9	1	38	0.40	350
AIML0805UH-4R7M	4.7	1	35	0.40	350
AIML0805UH-5R6M	5.6	1	32	0.50	250
AIML0805UH-6R8M	6.8	1	29	0.50	250
AIML0805UH-8R2M	8.2	1	26	0.56	250
AIML0805UH-100M	10	1	24	0.70	250
AIML0805UH-120M	12	1	22	0.70	250
AIML0805UH-150M	15	1	19	0.85	100

## TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)  
Inductance & Q-HP4195A+HP41951  
DCR: VOAC-7412  
SRF: HP8753C
- Solderability: 75% of the terminal electrode shall be covered  
Preheat: @ 180°C ± 5°C for 2-3 minutes  
Solder temperature: 230°C for 4 seconds ± 1 second  
Flux: Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC: The DC current at which the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

## PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	2.0 ± 0.2
W	1.2 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3