ASMPH-1008

2.5 x 2.0 x 0.9mm

FEATURES:

- High DC bias current due to trench technology
- Much lower profile than any other series
- Monolithic structure for high reliability
- Excellent solderability and heat resistance
- Magnetically shielded structure to eliminate cross coupling

► **APPLICATIONS**:

(Pb)

ASMPH family is a miniature type of multilayer power inductors constructed using low loss ferite material to support high-speed switching frequencies. The compact size and high efficiency is ideal for DC/DC converter applications in space limited boards.

RoHS/RoHS II Compliant

- Switching mode regulators for smart phones and cameras.
- Buck converters for RFIC, RFPA and Audio Codec modules.
- Boost converters for flash drivers.
- Wireless cards, DVD players and other electronic devices.

ELECTRICAL SPECIFICATIONS:

Operating Temperature: -55°C to +125°C

Storage Temperature: -10°C to +40°C and RH 70% (Max.)

Part Number ASMPH-1008- Inductance Code	Inductance	Tolerance	DCR	SRF Min.	Temperature Rise Current (max)	Saturation Current (Typ)
Units	μH	%	$\Omega \pm 25\%$	MHz	mA	mA
Symbol	L	M=±20% N=±30%	DCR	SRF	I _{rms}	I _{sat}
ASMPH-1008-R47	0.47	M, N	0.04	105	1800	1500
ASMPH-1008-1R0	1.0	M, N	0.06	70	1600	1400
ASMPH-1008-1R5	1.5	M, N	0.07	65	1500	1200
ASMPH-1008-2R2	2.2	M, N	0.08	55	1300	850
ASMPH-1008-3R3	3.3	M, N	0.10	30	1200	450
ASMPH-1008-4R7	4.7	M, N	0.11	25	1100	320

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- a. Ambient Temperature: 20±15°C
- b. Relative Humidity: 65±20%
- c. Air Pressure: 86 kPa to 106 kPa

Inductance (L): HP4291B+HP16192A or Equivalent, tested at 1MHz, -20dBm or 50mV. Direct Current Resistance (DCR): Milliohmeter-HP4338B or Equivalent Self-Resonant Frequency (SRF): HP4291B+HP16192A or Equivalent, -20dBm or 50mV.

Temperature Rise current (Irms): Electric Power, Electric current meter, Thermometer.

Irms is the value of DC current as chip surface temperature rose just 40°C against chip initial surface temperature.

Saturation Current (Isat): HP6632B system DC power supply, HP4291B+HP16192A+HP16200A or equivalent.

Isat is the value of DC current as inductance decreased just 30% against initial value

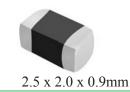


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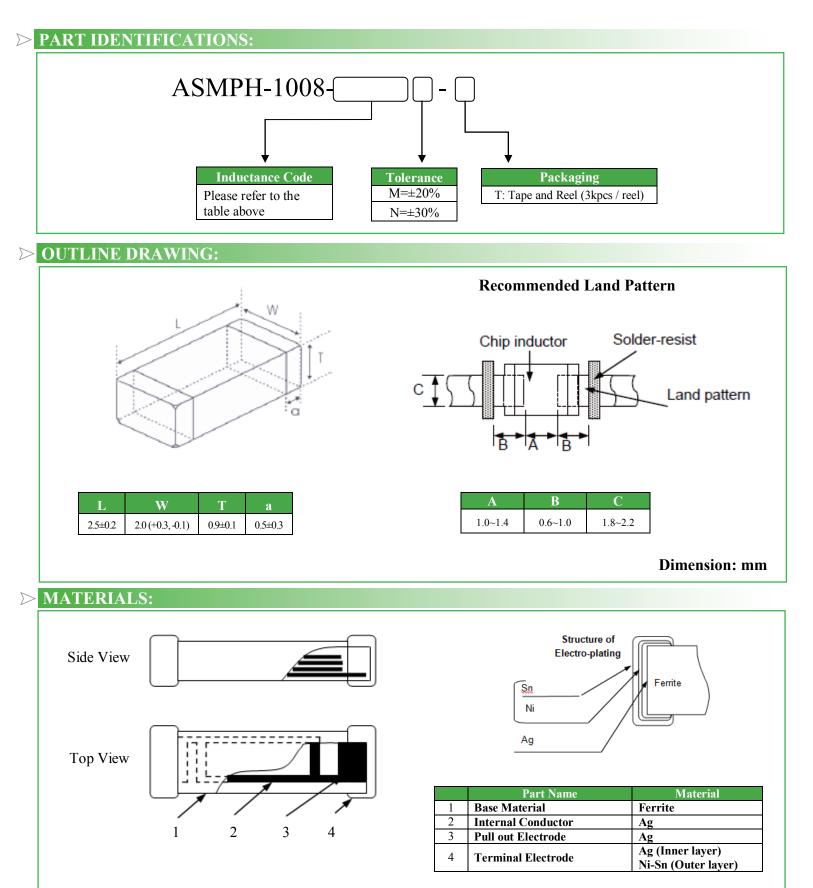
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P RoHS/RoHS II Compliant



ASMPH-1008



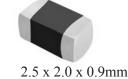


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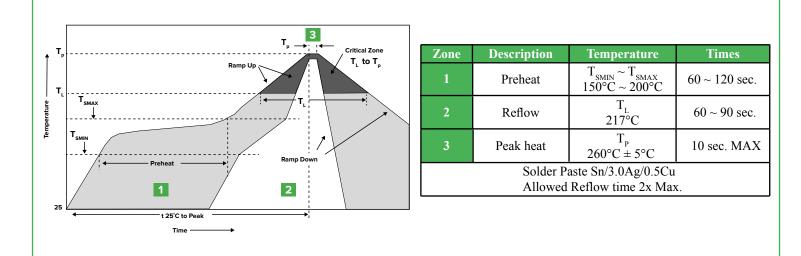
SMD Multilayer Chip Power Inductor

Pb RoHS/RoHS II Compliant

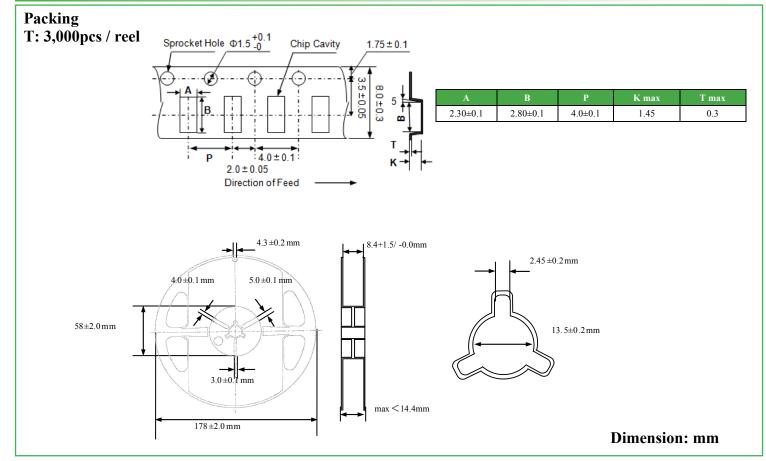


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REFLOW PROFILE:



\triangleright TAPE & REEL:



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