

SMD HIGH CURRENT POWER INDUCTORS

HSM0807 SERIES



FEATURES:

- High current and Low DCR
- Low profile for machine placement
- Min electromagnetic interference
- Prevent EMI effect via precise impedance
- Custom design available
- RoHS-compatible

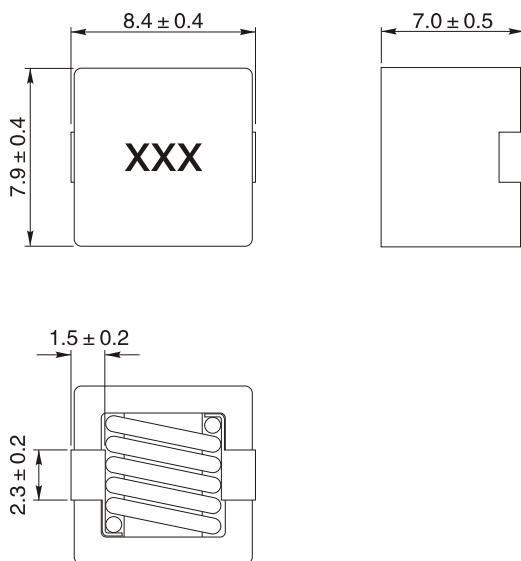
APPLICATIONS:

- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

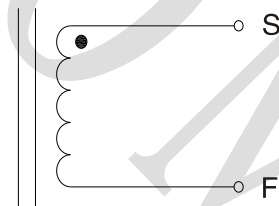
ELECTRICAL CHARACTERISTICS:

Part Number	L(μH) 100KHz,0.1V ± 20%	Rated current I _{rms} (A)	Saturation current I _{sat} (A)	DCR (mΩ)Typ
HSM0807-R30M	0.3	20.5	36.0	1.54
HSM0807-R47M	0.47	19.0	32.0	1.89
HSM0807-R56M	0.56	19.0	28.0	1.89
HSM0807-R68M	0.68	19.0	23.5	1.89
HSM0807-R82M	0.82	17.0	23.0	3.25
HSM0807-1R0M	1.0	17.0	24.0	3.25
HSM0807-1R5M	1.5	16.5	18.5	4.84
HSM0807-2R2M	2.2	16.5	12.5	4.84
HSM0807-3R3M	3.3	14.0	8.5	7.15
HSM0807-4R7M	4.7	7.5	8.0	13.64
HSM0807-6R8M	6.8	5.5	7.5	24.42
HSM0807-100M	10	4.4	7.0	44.55

PHYSICAL CHARACTERISTICS



WINDING



- Inductor Testing: HP4284A (Equivalent acceptable)
DCR: WK3260B
- Rated Current(I_{rms}) will cause the coil temperature rise
Approximately ΔT=40°C Max
- I_{sat}(A) will cause L₀ to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
- Storage Temperature: -40°C to +105°C
- All specifications subject to change without notice.