

# SMD HIGH CURRENT POWER INDUCTORS

## HSM1009 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

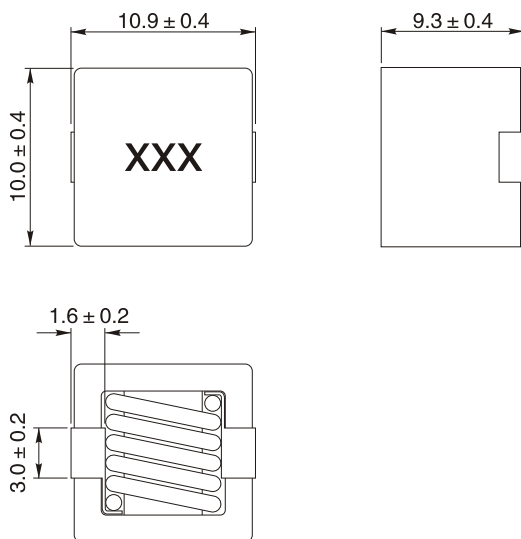
### APPLICATIONS:

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

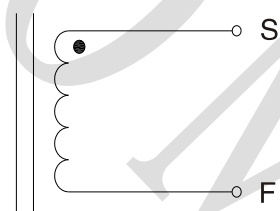
### ELECTRICAL CHARACTERISTICS:

Part Number	L(μH) 100KHz,0.1V ± 20%	Rated current I <sub>rms</sub> (A)	Saturation current I <sub>sat</sub> (A)	DCR (mΩ)Typ
HSM1009-R22M	0.22	21.5	60.0	0.66
HSM1009-R33M	0.33	21.5	55.0	0.66
HSM1009-R47M	0.47	20.5	47.0	0.88
HSM1009-R68M	0.68	20.0	38.0	1.49
HSM1009-R82M	0.82	20.0	36.0	1.49
HSM1009-1R0M	1.0	20.0	27.5	1.49
HSM1009-1R5M	1.5	18.0	27.0	2.75
HSM1009-2R2M	2.2	16.5	22.0	4.07
HSM1009-3R3M	3.3	14.0	15.5	5.94
HSM1009-4R7M	4.7	13.0	15.0	9.02
HSM1009-6R8M	6.8	11.5	11.0	14.52
HSM1009-8R2M	8.2	11.5	8.0	14.52
HSM1009-100M	10	9.0	8.0	22.77

### PHYSICAL CHARACTERISTICS



### WINDING



- Inductor Testing: HP4284A (Equivalent acceptable)  
DCR: WK3260B
- Rated Current(I<sub>rms</sub>) will cause the coil temperature rise  
Approximately ΔT=40°C Max
- I<sub>sat</sub>(A) will cause L<sub>0</sub> 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.