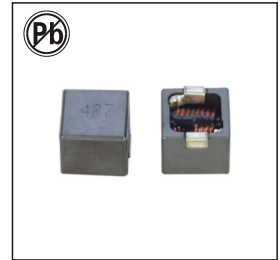


SMD HIGH CURRENT POWER INDUCTORS

HSM1210 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

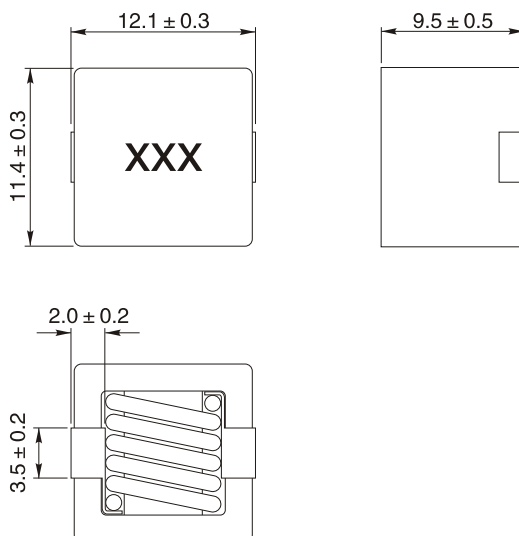
APPLICATIONS:

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

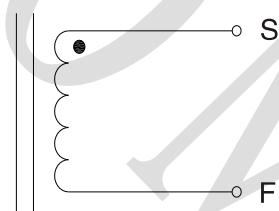
ELECTRICAL CHARACTERISTICS:

Part Number	L(μ H) 100KHz,0.1V $\pm 20\%$	Rated current I _{rms} (A)	Saturation current I _{sat} (A)	DCR (m Ω)Typ
HSM1210-R22M	0.22	27.0	60.0	0.58
HSM1210-R33M	0.33	27.0	55.0	0.58
HSM1210-R47M	0.47	26.0	48.0	0.79
HSM1210-R68M	0.68	26.0	38.0	0.79
HSM1210-R82M	0.82	24.0	36.0	1.29
HSM1210-1R0M	1.0	24.0	32.0	1.29
HSM1210-1R5M	1.5	19.5	27.0	2.31
HSM1210-2R2M	2.2	18.0	23.0	3.36
HSM1210-3R3M	3.3	17.0	17.0	4.84
HSM1210-4R7M	4.7	15.5	17.0	6.99
HSM1210-6R8M	6.8	13.0	13.0	9.88
HSM1210-8R2M	8.2	13.0	12.0	10.89
HSM1210-100M	10	9.0	10.0	15.84

PHYSICAL CHARACTERISTICS



WINDING



- Inductor Testing: HP4284A (Equivalent acceptable)
DCR: WK3260B
- Rated Current(I_{rms}) will cause the coil temperature rise
Approximately $\Delta T=40^{\circ}\text{C}$ 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 $+105^{\circ}\text{C}$
- All specifications subject to change without notice.