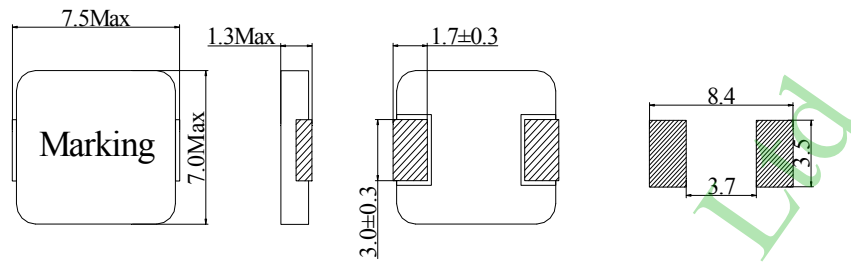


**Inductance Range: 0.56μH~10μH**  
**Temperature Range: -40℃~+125℃**

### PSM-0612 Series

#### Dimensions (mm)



#### Features:

- ★Quantity / Reel: 1500pcs
- ★High performance (Isat) realized by metal dust core.
- ★Low profile: Thickness max. 1.3mm
- ★Low loss realized with low DCR  
Capable of corresponding high frequency (1MHz)
- ★Design to customer requirement

#### RoHS Compliant(SGS Certified Result)

Pb	Cd	Cr+6	PBBs	PBDEs
< 1000ppm	ND	ND	ND	ND



#### Application:

- ★DC/DC converter for CPU in Notebook PC
- ★Thin type on-board power supply module for exchangerVRM for server

#### Configuration:

PSM - 0612 - 1R0 - M

(1) (2) (3) (4)

(1)Product Code(P&Z for SMD type)

(2)Series Code(Typical dimension)

(3)Inductance: 1R0 = 1.0 μH

(4) Inductance tolerance: M= ±20%, L= ±15%, K= ±10%

#### Electrical Characteristics:

P&Z Part Number	L0 @ (0A) Inductance ( μH ) ±20%	DCR(mΩ)		Heat Rating Current DC Amps. Idc ( A )	Saturation Current DC Amps. Isat ( A )
		Typical	Maximum	Typical	Typical
PSM0612-R56M	0.56	13.5	15.5	7.0	11.0
PSM0612-R68M	0.68	15.0	17.5	6.7	9.0
PSM0612-R82M	0.82	21.5	24.5	6.3	8.0
PSM0612-1R0M	1.0	25.0	29.0	6.0	7.5
PSM0612-2R2M	2.2	51.5	59.0	4.0	5.0
PSM0612-3R3M	3.3	80.0	92.0	3.0	4.0
PSM0612-4R7M	4.7	106.0	122.0	2.7	3.5
PSM0612-6R8M	6.8	185.0	210.0	2.2	2.8
PSM0612-100M	10.0	250.0	290.0	2.0	2.2

★If you require another part number please contact with us.

- All test data is referenced to 25℃ ambient. Operating. Temperature Range -55℃to + 125℃. Test Condition:100KHz, 1.0Vrms.
- Idc:DC current (A) that will cause an approximate Δ℃T of 40℃.
- Isat:DC current (A) that will cause Lo to drop approximately 30%.
- The part temperature (ambient + temp rise ) should not exceed 125℃ under worse case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.