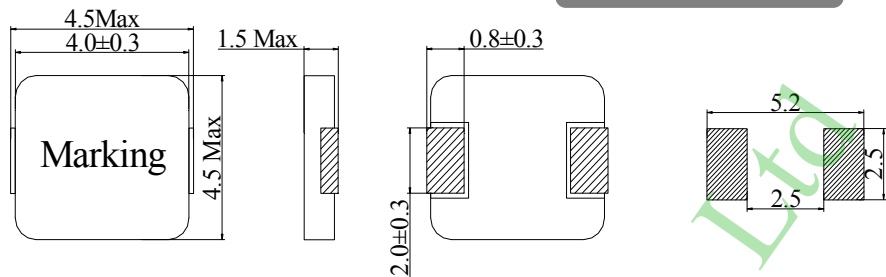


**Inductance Range: 0.33μH~4.7μH**  
**Temperature Range: -40℃~+125℃**

### PSM-0412 Series

#### Dimensions (mm)



#### Features:

- ★Quantity / Reel: 3000pcs
- ★High performance (Isat) realized by metal dust core.
- ★Low profile: Thickness max. 1.2mm
- ★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- 0412 - 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
PSM0412-R33M	0.33	17.0	19.0	6.5	8.4
PSM0412-R47M	0.47	19.0	21.0	6.0	6.8
PSM0412-R68M	0.68	32.0	36.0	4.5	6.0
PSM0412-1R0M	1.0	43.0	47.0	4.2	5.2
PSM0412-1R5M	1.5	68.0	75.0	3.25	4.0
PSM0412-2R2M	2.2	79.4	83.5	2.75	3.5
PSM0412-4R7M	4.7	175.0	195.0	1.8	2.8

★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.