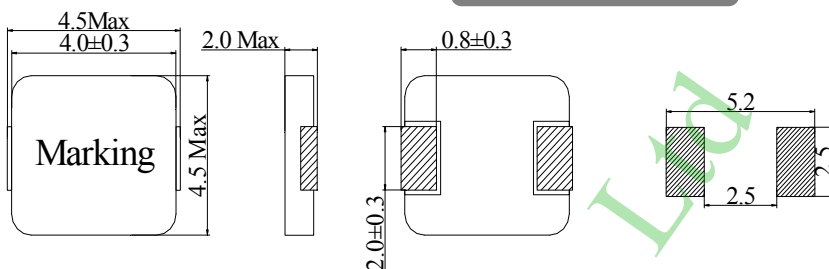


Inductance Range: 0.1μH~4.7μH

Temperature Range: -40℃~+125℃

Dimensions (mm)



PSM-0420 Series

Features:

- ★Quantity / Reel: 3000pcs
- ★High performance (Isat) realized by metal dust core.
- ★Low profile: Thickness max. 2.0mm
- ★Low loss realized with low DCR
Capable of corresponding high frequency (3MHz)
- ★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:

PSM0420 - 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
PSM0420-R10M	0.10	3.5	4.0	12.0	22.0
PSM0420-R22M	0.22	6.0	6.6	9.0	12.5
PSM0420-R47M	0.47	12.5	14.0	7.0	9.5
PSM0420-R56M	0.56	14.0	16.0	6.5	10.0
PSM0420-R68M	0.68	16.0	18.0	6.0	9.0
PSM0420-1R0M	1.0	24.0	27.0	4.5	7.0
PSM0420-1R2M	1.2	24.0	27.0	4.5	7.0
PSM0420-1R5M	1.5	38.0	46.0	4.0	6.0
PSM0420-2R2M	2.2	52.0	58.0	3.0	5.0
PSM0420-3R3M	3.3	74.0	87.0	2.5	4.0
PSM0420-4R7M	4.7	92.0	105.0	2.2	3.0

★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.