



MPC-2520AB-XXX-M Power Choke

Part No	Inductance	DC Resistance		Heating Rating Current		Saturation Current	
	L0(μH)	DCR(mΩ)		Idc(A)		Isat(A)	
	±20%,100KHZ,1V	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MPC-2520AB-R22-M	0.22	8	10	7.3	6.57	7	6.3
MPC-2520AB-R33-M	0.33	14	17	5.5	4.95	5.8	5.22
MPC-2520AB-R47-M	0.47	23	28	4.5	4	5	4.5
MPC-2520AB-R50-M	0.5	25	30	4.3	3.87	4.8	4.32
MPC-2520AB-1R0-M	1	45	55	3.1	2.7	3.8	3.3
MPC-2520AB-1R5-M	1.5	58	70	2.7	2.43	2.9	2.61
MPC-2520AB-2R2-M	2.2	86	105	2.3	2	2.5	2.2
MPC-2520AB-3R3-M	3.3	120	1444	1.75	1.55	2	1.8
MPC-2520AB-4R7-M	4.7	200	240	1.5	1.3	1.9	1.5
MPC-2520AB-6R0-M	6	240	275	1.3	1.1	1.7	1.4
MPC-2520AB-100-M	10	400	460	1	0.85	1.3	1

Notes 1.All test date is referenced to 25℃ ambient

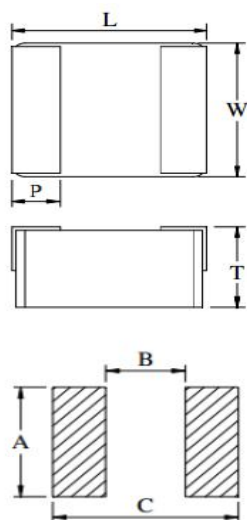
2.Operating temperature range -55℃to+125℃

3.Idc(A):DC current(A)that will cause an apprpiximate ΔT of 40℃

4.Isat(A):DC current(A)that will cause L0 todrop approximately 30%

5.The part temperature (ambient+temp rise)should not exceed 125℃under worst case operating conditions.

Circuit design,component placement, PWB trace size and thickness,airflow and other cooling provisions
all affect the part temperture.Part temperture should beverified in the end application



Code	Dimensions
L	2.5±0.3
W	2.0±0.2
T	1.2MAX.
P	0.6±0.2

Unit: mm

A	2.0
B	1.2
C	2.8

Unit: mm

Recommend Land Pattern Dimensions

FEATURES

- Lowest molded height (1.2mm) in this package footprint
- Shielded construction
- Frequency range up to 3.0MHz
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Encapsulated body offers improved environmental protection and moisture resistance.
- Higher dielectric withstanding voltage vs. IHLP
- Flame retardant encapsulant (UL94V-0)
- Corrosion resistant package
- Compliant to RoHS directive 2002/95/EC

**APPLICTIONS**

- PDA/notebook/desktop/server applications
- Hight current POL converters
- Low profile,hig current power supplies
- Battery powered devices
- DC/DC converters in disteibuted power systems
- DC/DC converter for Field Progarammable Gate Array (FAGA)