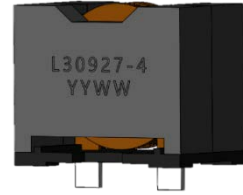


1. Features of L30927 Series :

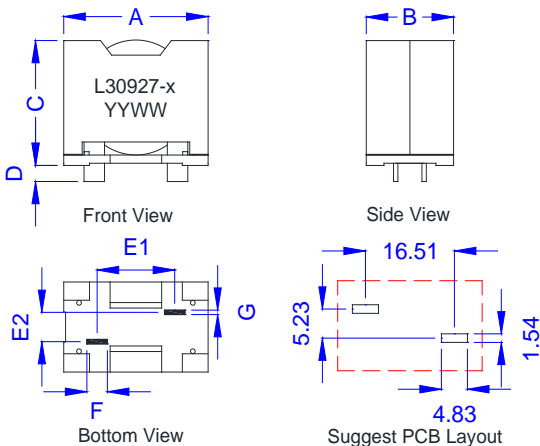
- Ferrite based Power Inductor with lower core loss.
- Inductance Range:3.3uH to 33.0uH, Custom values are welcomed.
- High current output chokes, up to 108.0 Amp with approx. 30% roll off.
- Low Profile 22.74mm Max. height.
- Foot Print 27.43 x 16.97 mm Max.
- Ideal for high current power supply, Class-D.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -40°C to + 140°C , RoHS & HF compliance..



2. Electrical Characteristics of L30927 Series:

ITG Part Number	OCL ¹ (uH) ±10%	DCR (mΩ) Typ. @25°C	DCR (mΩ) Max. @25°C	SRF (MHz) Typ.	Isat ² (A)			I _{rms} ³ (A)	
					10% drop	20% drop	30% drop	20°C rise	40°C rise
					L30927-1	3.30	2.30	2.60	40.00
L30927-2	4.70	2.30	2.60	30.00	63.00	69.00	72.00	19.00	26.00
L30927-3	6.80	2.30	2.60	25.00	48.00	53.00	56.00	19.00	26.00
L30927-4	10.00	2.30	2.60	20.00	30.00	34.00	37.00	19.00	26.00
L30927-5	15.00	2.30	2.60	16.00	20.50	23.00	24.50	19.00	26.00
L30927-6	22.00	2.30	2.60	13.00	12.20	14.70	16.40	19.00	26.00
L30927-7	33.00	2.30	2.60	10.00	7.50	9.20	10.30	19.00	26.00

3. Mechanical Dimension of L30927 Series (Unit:mm):



A	B	C	D	E1	E2	F	G
±0.51	±0.51	±0.51	±0.30	±0.51	±0.50	Nom.	Nom.
26.92	16.46	22.23	3.30	16.51	5.23	3.80	0.76

Marking:
L30927-x is inductance value in uH
YYWW is Date Code

Notes:

1. Open Circuit Inductance (OCL) and L@I_{rms} and L@I_{sat} are measured at 300KHz, 0.1V@ 25°C
2. I_{sat}: DC current that causes inductance to drop by approximately 10% or 20% or 30% from OCL (T_a=25°C).
3. I_{rms}: DC current for temperature rise of 20°C(Typ.) or 40°C(Typ.) without core loss.
Derating is necessary for AC currents, PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 140°C under worst case operating conditions verified in the end application.



L30927 Series

