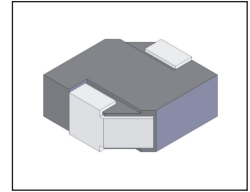


SMT Power Inductor (MOLDING TYPE)

MPL73 Type

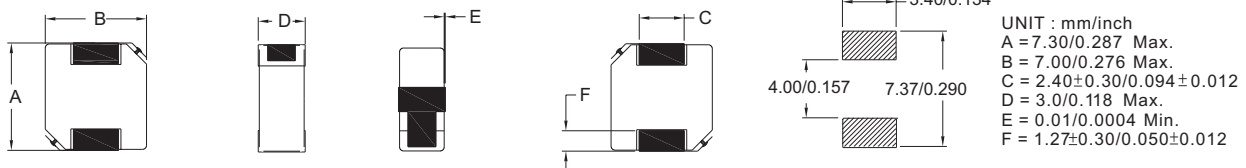
Features

- RoHS compliant.
- Low profile (3.0mm max. height) high current(60A) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:

RECOMMENDED PAD PATTERNS



Electrical Characteristics: At 25°C: 100KHz, 0.25V

PART NO.	L_o^1 (μ H)	DCR ($m\Omega$) TYP.	DCR ($m\Omega$) MAX.	I_{sat}^2 (A \cdot c)	I_{rms}^3 (A \cdot c)
MPL73-0R1	0.10 ± 20%	1.5	1.7	60.0	32.0
MPL73-R15	0.15 ± 20%	1.9	2.5	52.0	26.0
MPL73-0R2	0.20 ± 20%	2.4	3.0	41.0	24.0
MPL73-R22	0.22 ± 20%	2.5	2.8	40.0	23.0
MPL73-R33	0.33 ± 20%	3.5	3.9	30.0	20.0
MPL73-R47	0.47 ± 20%	4.0	4.2	26.0	17.5
MPL73-R68	0.68 ± 20%	5.0	5.5	25.0	15.5
MPL73-R82	0.82 ± 20%	6.8	8.0	24.0	13.0
MPL73-1R0	1.00 ± 20%	9.0	10.0	22.0	11.0
MPL73-1R5	1.50 ± 20%	14.0	15.0	18.0	9.0
MPL73-2R2	2.20 ± 20%	18.0	20.0	14.0	8.0
MPL73-3R3	3.30 ± 20%	28.0	30.0	13.5	6.0
MPL73-4R7	4.70 ± 20%	37.0	40.0	10.0	5.5
MPL73-6R8	6.80 ± 20%	54.0	60.0	8.0	4.5
MPL73-8R2	8.20 ± 20%	64.0	68.0	7.5	4.0
MPL73-100	10.0 ± 20%	102.0	105.0	7.0	3.0

1. L_o is the initial inductance.
2. I_{sat} is the DC current which cause the inductance drop approximately 20% of its nominal inductance without current.
3. I_{rms} is the DC current which cause the surface temperature of the part increase approximately than 40°C.
4. Operating temperature : -55°C to 125°C (including self-temperature rise). Circuit design, component placement, PWS trace size and thickness, airflow and other cooling component can affect the surface temperature of the part. Please verify the temperature of the part in the end application.



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