

MDPU Series

Molding SMD Power Inductors



FEATURES

- Halogen Free & ROHS compliant.
Low profile and low DCR.
- Magnetically Shielded construction, low EMI.
- Frequency range up to 3MHz.
- Minimized acoustic noise and minimized leakage flux noise.
- High current carrying capacity, Low core loss.
Flat wire: high utilization of winding space delivers low DC resistance.
Operating temperature: -55 to +125 °C

APPLICATION

- AI Servers, Data Centers, GPU/AI Accelerators.
- Desktop Motherboards, CPU/GPU Power Delivery.
- Multi-phase VRM, High-current DC-DC Converters.
Networking Equipment, Communication Infrastructure.

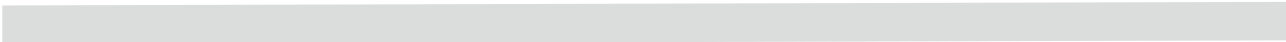
Dimensions: [mm]

Marking

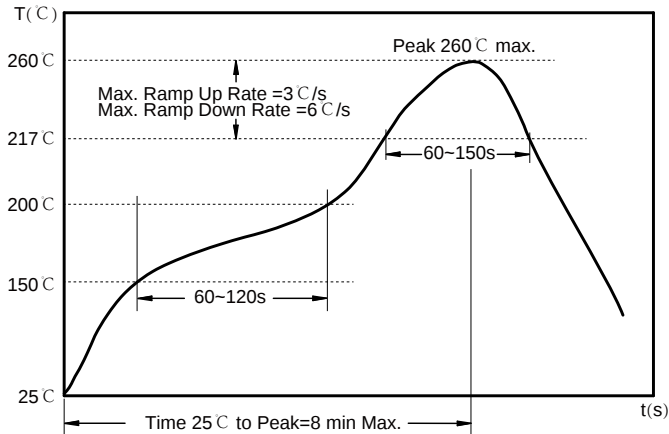


	4.2±0.2	2.0 max	1.2±0.3	4.3±0.3	1.6	4.5
	5.1±0.3	3.0 max	1.6±0.3	5.3±0.3	1.7	5.5
	6.4±0.4	3.0 max	1.9±0.4	6.6±0.4	2.3	7.0

Electrical Properties:



Soldering Reflow:



Preheat condition: 150 ~200 °C/ 60~120 sec.

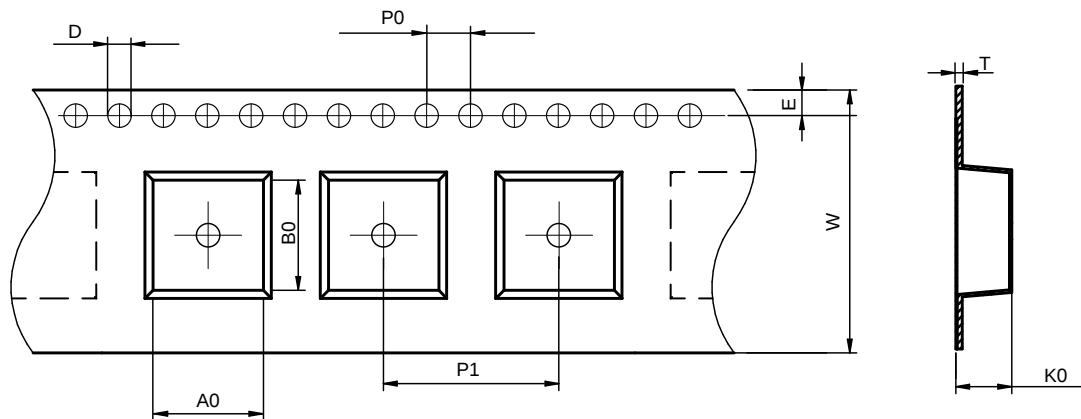
Allowed time above 217 °C: 60~150 sec.

Max temperature: 260 °C.

Time within 5 °C of actual Peak Temperature: 30 sec max.

Packaging Information:

Tape Dimension: [mm]



Series	D typ.	P0 typ.	P1 typ.	W typ.	E typ.	A0 typ.	B0 typ.	K0 typ.	T typ.
0420	1.5	4.0	8.0	12.0	1.75	4.4	4.4	2.5	0.35
0530	1.5	4.0	8.0	12.0	1.75	6.0	5.7	3.3	0.35
0630	1.5	4.0	12.0	16.0	1.75	7.1	6.9	3.3	0.35
405060	1.5	4.0	8.0	16.0	1.75	4.6	5.6	6.3	0.40
4860	1.5	4.0	12.0	16.0	1.75	5.2	5.4	6.3	0.40
130806	1.5	4.0	12.0	24.0	1.75	7.3	13.1	6.3	0.40

Product Marking:

Marking	Printing (Inductance)
---------	-----------------------

Reel Dimension: [mm]

