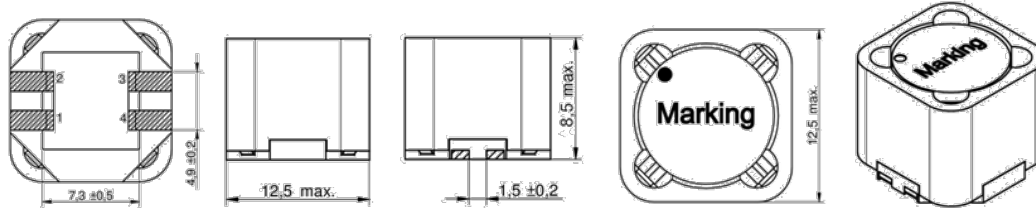
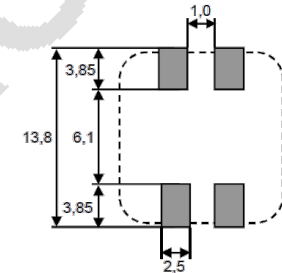


1. Shape & Dimensions (mm)

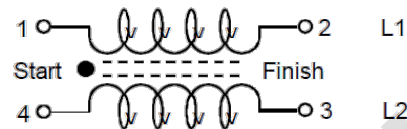


Reference on Drawing ^o	Description ^o
• ^o	Start of winding ^o
Marking ^o	(150) Inductance code ^o

2. Recommended Land Pattern (mm)



3. Electrical Properties



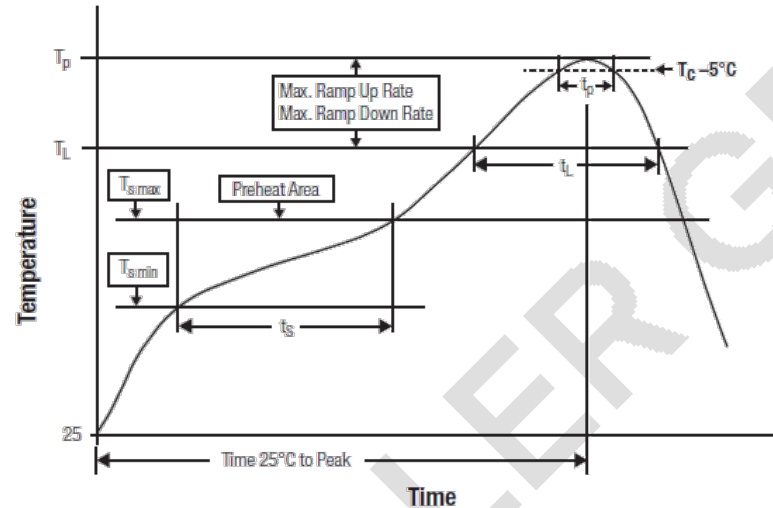
Part Number	Inductance L1, L2 (uH)	Inductance Tolerance	D.C.R. (Max Ω) @ 25°C	Saturation Current (Typ A)	Rated Current (Max A)	Rated Voltage U _{DC} (Max V)
PVT-MDCDH1280-150M	15	± 20%	0.055	6.1	3.3	80
PVT-MDCDH1280-221M	220	± 20%	0.58	1.6	0.91	80

Remarks:

- It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.
Operating Temperature: -40°C to +125°C
Storage Temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Inductance: 1.5uH~220uH @ 100KHz/5mA
I_{dc1}(I_{sat}): 1.6A~18A Typ. DC current that will cause L₀ to drop approximately 10%
I_{dc2}(I_r): 0.91A~6.25A Max. DC current that will cause an approximate ΔT of 40°C
DC Resistance: 0.015Ω~0.58Ω Max.
Self-Resonant Frequency: 2.8 MHz~75 MHz Typ

(continued)

4. Recommended Reflow Condition



Profile Feature		Value
Preheat Temperature Min	T_s min	150°C
Preheat Temperature Max	T_s max	200°C
Preheat Time t_s from T_s Min to T_s Max	t_s	60-120 seconds
Ramp-up Rate (T_L to T_p)		$3^\circ\text{C}/\text{second}$ max.
Liquidous Temperature	T_L	217°C
Time t_i Maintained above T_L	t_i	60-150 seconds
Peak Package Body Temperature	T_p	260°C
Time within 5°C of Actual Peak Temperature	t_p	20-30 seconds
Ramp-Down Rate (T_L to T_p)		$6^\circ\text{C}/\text{second}$ max.
Time 25°C to Peak Temperature		8 minutes max.