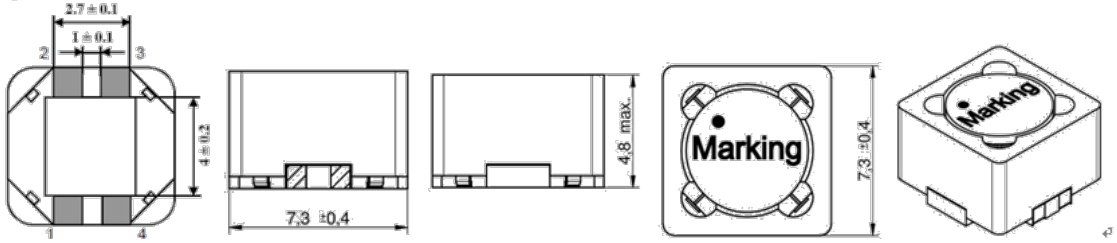
PIVOTELEC

PRODUCT SPECIFICATIONS

Part Number: PVT-MDCDH7345

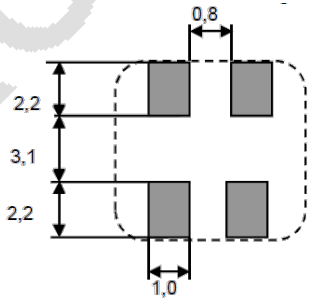
Description: SMD Shielded Coupled Inductor

1. Shape & Dimensions (mm)

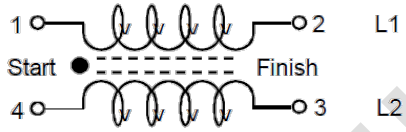


Reference on Drawing	Description
-	Start of winding
Marking	(330) Inductance code

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-MDCDH7345-330M	33	± 20%	0.5	1.5	0.7	80
PVT-MDCDH7345-101M	100	± 20%	1.3	0.9	0.65	80

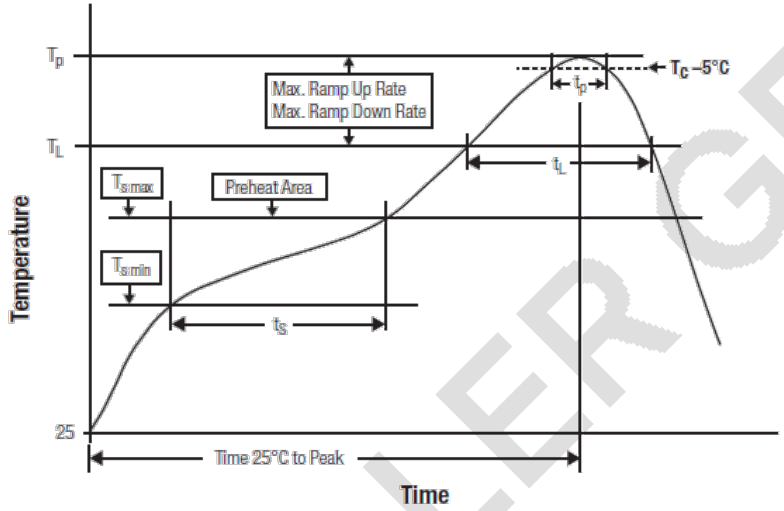
Remarks:

A. 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.

B. Inductance: 1.8uH~100uH @ 1KHz/0.25V
Idc1(Isat): 0.9A~6.5A Typ. DC current that will cause L0 to drop approximately 10%
Idc2(Ir): 0.65A~4.7A Max. DC current that will cause an approximate ΔT of 40°C
DC Resistance: 0.34Ω~1.3Ω Max.
Self-Resonant Frequency: 4 MHz~58 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°C/second max.
Liquidous Temperature	T_l	217°C
Time t_l Maintained above T_L	t_l	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°C/second max.
Time 25°C to Peak Temperature		8 minutes max.