PM-HC
SMD HIGH CURRENT INDUCTOR

RoHS

* Designed for high current
* Magnetically shielded
* Winding to core isolation at 300Vrms
* Lowest DCR / Inductance, high efficiency

ELECTRICAL SPECIFICATIONS AT 25°C

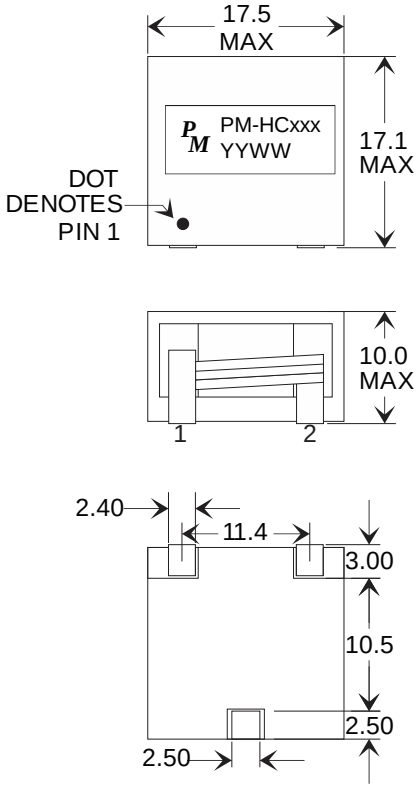
PART NUMBER	L (µH) ±20%	L (µH) MIN. at Isat	DCR (mΩ MAX)	SATURATION CURRENT		RATED CURRENT (A)	TEMPERATURE RISE CURRENT (A)
				25°C	105°C		
PM-HC001	3.3	2.4	1.8	27.5	25.0	25	40
PM-HC002	3.3	2.4	2.9	35.0	28.0	22	35
PM-HC003	4.7	3.4	2.9	25.0	20.0	22	32
PM-HC004	5.3	3.8	3.6	25.0	20.0	17	28
PM-HC005	6.0	4.3	5.0	25.0	20.0	15	27
PM-HC006	6.8	4.9	5.6	25.0	20.0	14	23
PM-HC007	15.0	10.8	9.3	14.0	13.0	11	17
PM-HC008	18.0	13.0	10.2	12.0	11.0	10	17
PM-HC009	20.0	14.4	10.2	11.0	10.0	10	16
PM-HC010	40.0	28.8	24.0	7.5	8.0	6.5	10

NOTES:

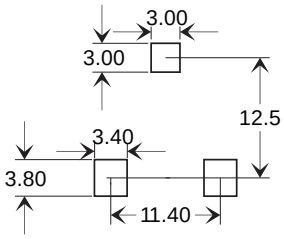
1) Temperature Rise Current is the DC current at which the temperature rise is at ∆T=40°C. (Ta=25°C)

2) Operating temperature is -40°C to 125°C which includes temperature rise.

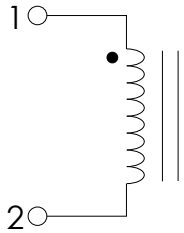
DIMENSIONS IN mm



SUGGESTED PCB LAYOUT



SCHEMATICS



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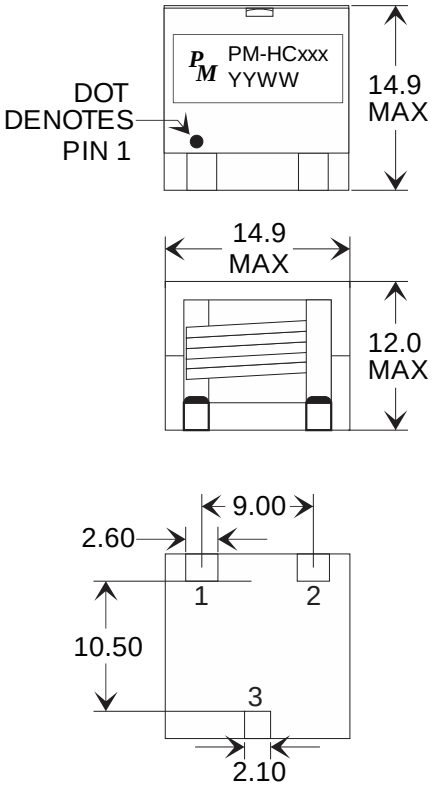
ELECTRICAL SPECIFICATIONS AT 25°C

PART NUMBER	L (µH) ±20% (100kHz, 0.3V)	DCR (mΩ MAX)	SATURATION CURRENT (A)		TEMPERATURE RISE CURRENT (A)
			25°C	105°C	
PM-HC051	4.70	4.44	18.4	14.0	13.0
PM-HC052	6.10	5.40	16.4	12.4	12.5
PM-HC053	7.70	7.56	14.8	11.2	10.3
PM-HC054	10.0	8.40	13.1	10.0	9.6
PM-HC055	12.0	9.72	11.8	9.0	9.0
PM-HC056	14.0	11.28	10.9	8.3	8.3
PM-HC057	7.40	4.44	10.8	8.4	13.0
PM-HC058	10.0	5.40	9.2	6.9	12.5
PM-HC059	12.0	7.56	8.5	6.5	10.3
PM-HC060	15.0	8.40	8.0	6.0	9.6
PM-HC061	18.0	9.72	7.2	5.5	9.0
PM-HC062	22.0	11.28	6.4	5.0	8.3

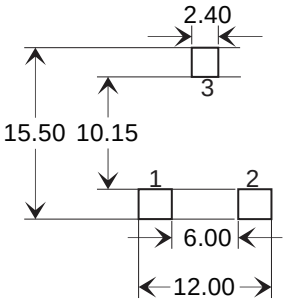
NOTES:

1) Temperature Rise Current is the DC current at which the temperature rise is at ΔT=40°C. (Ta=25°C)
2) Operating temperature is -40°C to 125°C which includes temperature rise.
3) Saturation current is the DC current at which the inductance falls to 75% of its nominal value.

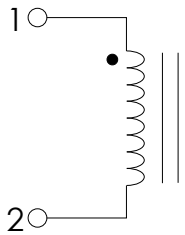
DIMENSIONS IN mm



SUGGESTED PCB LAYOUT



SCHEMATICS



Specifications subject to change without notice. Tolerances: .x = ± 0.5, .xx = ± 0.3 02/2020