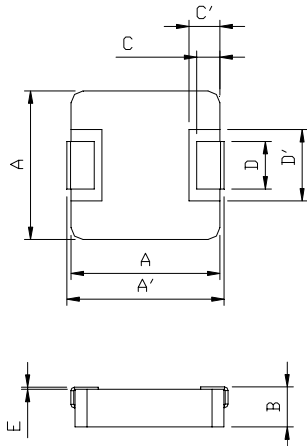




## DELTA P/N : MPT1040-H1 Series

### Mechanical dimensions



Unit : mm		
	R15 / R22 / R36 / R39 R45 / R47 / R56 / R68 R88 / 1R0 / 1R5	1R8 / 2R0 / 2R2 / 3R3 4R7 / 5R6 / 6R8 / 8R2 100 / 150 / 220 / 330 470 / 680
A'	11.15 ± 0.35	10.85 ± 0.35
A	10.0 ± 0.3	
B	3.8 ± 0.2	
C	2.0 ± 0.5	
C'	2.5 ± 0.1	
D	3.0 ± 0.5	
D'	5.0 ± 0.2	
E	0~0.15	
F	4.1	
G	5.4	
H	13.6	

### Electrical Characteristics

Part No.	Lo @0A (uH) ± 20%	Ir(Adc)	Isat(Adc)	DCR (mΩ)	
				TYP.	MAX
MPT1040-R15H1	0.15	40.0	75.0	0.5	0.65
MPT1040-R22H1	0.22	35.0	60.0	0.9	1.0
MPT1040-R36H1	0.36	30.0	50.0	1.05	1.2
MPT1040-R39H1	0.39	31.0	45.0	1.1	1.2
MPT1040-R45H1	0.45	25.0	27.0	1.1	1.3
MPT1040-R47H1	0.47	30.0	40.0	1.53	1.68
MPT1040-R56H1	0.56	25.0	33.0	1.6	1.8
MPT1040-R68H1	0.68	23.0	30.0	2.1	2.4
MPT1040-R88H1	0.88	20.0	29.0	2.7	3.0
MPT1040-1R0H1	1.0	18.0	28.0	3.0	3.3
MPT1040-1R5H1	1.5	16.0	32.0	3.8	4.2
MPT1040-1R8H1	1.8	15.0	15.0	4.5	5.0
MPT1040-2R0H1	2.0	14.0	14.0	5.2	5.8
MPT1040-2R2H1	2.2	12.0	18.0	6.0	7.0
MPT1040-3R3H1	3.3	10.0	16.0	10.8	11.8
MPT1040-4R7H1	4.7	8.5	15.0	17.0	20.0
MPT1040-5R6H1	5.6	8.0	14.0	20.0	23.0
MPT1040-6R8H1	6.8	7.0	12.0	22.5	25.0
MPT1040-8R2H1	8.2	6.0	9.0	25.0	27.0
MPT1040-100H1	10.0	7.5	8.5	27.0	30.0
MPT1040-150H1	15.0	6.25	7.0	40.0	45.0
MPT1040-220H1	22.0	5.0	5.5	60.0	66.0
MPT1040-330H1	33.0	4.4	5.0	85.0	92.0
MPT1040-470H1	47.0	3.3	3.5	130.0	145.0
MPT1040-680H1	68.0	2.3	3.0	178.0	195.0

#### NOTES:

- (1) All test data is referenced to 25°C ambient.
- (2) Ir is the DC current which cause the surface temperature of the part increase approximate 40°C
- (3) Isat is the DC current which cause the inductance drop approximate 30% of Lo.
- (4) Operating temperature range -55°C to 125°C. (The part temperature should be kepted under 125°C when the worse operating condition apply on it. Circuit design, component placement, PWB tracesize and thickness, airflow and other cooling provision may affect the part temperature. Part temperature should be verified in the end application.)
- (5) The rated current is depended on Ir and Isat which one is lower.

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