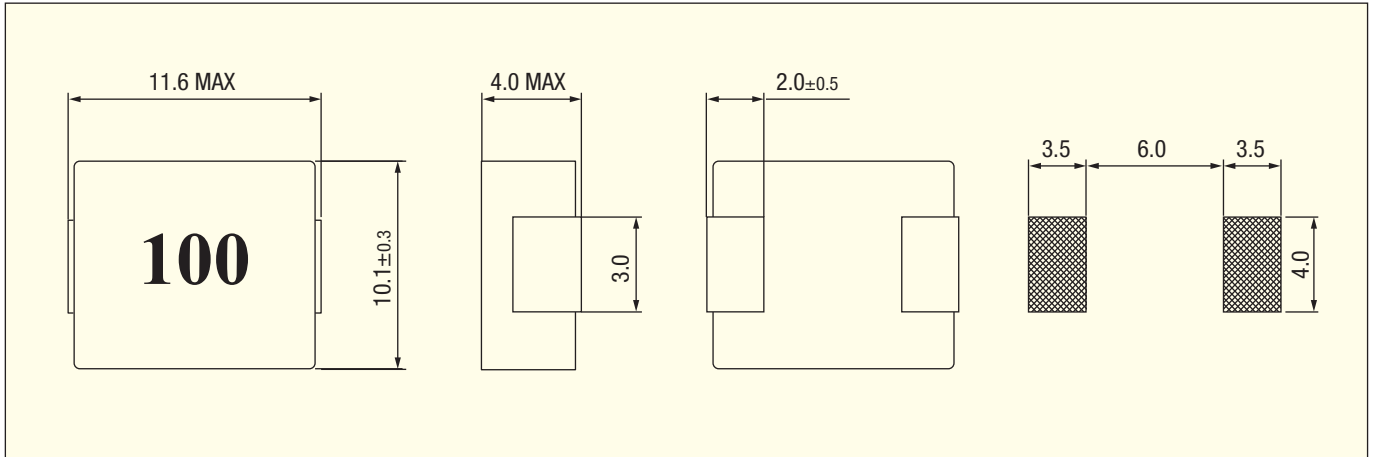


# MPIP1040 SERIES

## STANDARD EXTERNAL DIMENSIONS - mm



## PRODUCT SPECIFICATION

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ )	DC Resistance ( $\text{m}\Omega\text{MAX}$ )	Saturation Current (A TYP.) <sup>(1)</sup>	Temperature Rise Current (A TYP.) <sup>(2)</sup>
MPIP1040-R15MC	0.15	0.55	48	38
MPIP1040-R22MC	0.22	0.6	45	35
MPIP1040-R36MC	0.36	1.2	42	34
MPIP1040-R47MC	0.47	1.2	38	33
MPIP1040-R68MC	0.68	1.55	30	27
MPIP1040-1R0MC	1.0	3.5	26	20
MPIP1040-1R5MC	1.5	4.2	22	16
MPIP1040-1R8MC	1.8	5.0	16	15
MPIP1040-2R2MC	2.2	7.0	16	14
MPIP1040-3R3MC	3.3	13.2	12	11
MPIP1040-4R7MC	4.7	16.5	12	9.0

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ )	DC Resistance ( $\text{m}\Omega \text{MAX}$ )	Saturation Current (A TYP.) <sup>(1)</sup>	Temperature Rise Current (A TYP.) <sup>(2)</sup>
MPIP1040-5R6MC	5.6	19.0	11	8.0
MPIP1040-6R8MC	6.8	25	10	6.0
MPIP1040-8R2MC	8.2	30	9.0	6.0
MPIP1040-100MC	10	30	7.0	5.5
MPIP1040-150MC	15	45	6.0	5.2
MPIP1040-220MC	22	72	5.5	5.0
MPIP1040-330MC	33	110	5.0	3.2
MPIP1040-470MC	47	158	4.5	2.8
MPIP1040-101MC	100	300	2.0	1.5

1. All Test Data is Referenced to 25°C Ambient Measuring Condition : 100kHz, 100mV Tolerance of Inductance :  $\pm 20\%$

2. Saturation Rated Current : 30% lower than its initial value

3. Temperature Rise Current :  $\Delta T = 40^\circ\text{C}$

4. Temperature of components should be checked in the end application Operating Temperature :  $-55^\circ\text{C} \sim 155^\circ\text{C}$

† Transient pulse not to exceed 1 millisecond.

†† Maximum operating frequency less than 10MHz, consult factory for application specific values.