

MICRO POWER INDUCTORS

MEC series: MP105R



- High reliability
- Magnetic shielded construction
- Size: 10.3x10.5x5.1mm
- Inductance Range: 1.1uh – 330uh
- Saturation Current Range: 1.0A – 16.0A
- ROHS & REACH compliant, halogen and lead free.

Temperature Range: -40°C to +125°C.

Reel Quantity: 500pcs

Applications: Power supply, PCs, portable equipment, industrial control board

Part Number	Inductance (μH)	DCR (mΩ) (Max)	Isat (A) (Max)	Irms (A) (Max)
MP105R-1R1N	1.1±30%	7.6	16.0	9.2
MP105R-1R5N	1.5±30%	9.2	12.0	8.2
MP105R-3R0N	3.0±30%	14.5	9.8	6.5
MP105R-4R2N	4.2±30%	16.7	8.7	6.0
MP105R-5R6N	5.6±30%	21.9	7.8	5.2
MP105R-7R2N	7.2±30%	24.2	6.6	4.8
MP105R-100M	10±30%	33.8	5.7	3.7
MP105R-150M	15±30%	42.5	4.8	3.4
MP105R-220M	22±30%	61.5	4.0	2.8
MP105R-330M	33±30%	81.9	3.2	2.4
MP105R-470M	47±30%	115	2.7	2.0
MP105R-560M	56±30%	126	2.5	1.9
MP105R-680M	68±30%	158	2.2	1.8
MP105R-820M	82±30%	198	2.0	1.5
MP105R-L101M	100±30%	223	1.8	1.4
MP105R-L121M	120±30%	278	1.6	1.3
MP105R-L151M	150±30%	391	1.5	1.1
MP105R-L181M	180±30%	482	1.3	0.95
MP105R-L221M	220±30%	567	1.2	0.8
MP105R-L331M	330±30%	809	1.0	0.75

Test Frequency: 100KHz

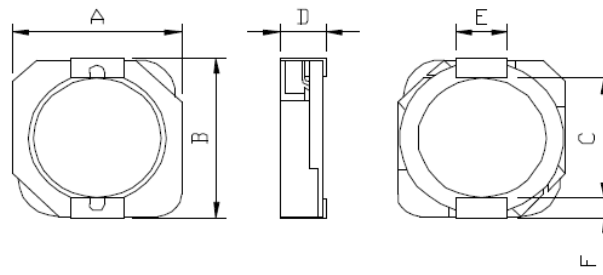
Isat: DC current at which the inductance drops 35% (typ) from its value without current.

Irms: The actual current when temperature of coil becomes Δ40°C. (Ta = +25°C).

We can offer competitive lead times and prices compared to other EMI passive suppliers. If you are looking for an alternative component then please do not hesitate to contact one of our [global sales offices](#).

SHAPES AND DIMENSIONS

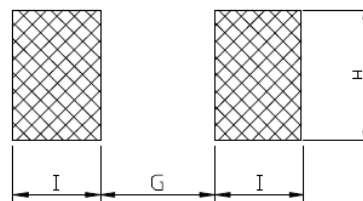
UNIT : mm



A=10.3 max. B=10.5 max. C=7.70 REF. D=5.1 max. E=3.0 REF F=1.2 REF

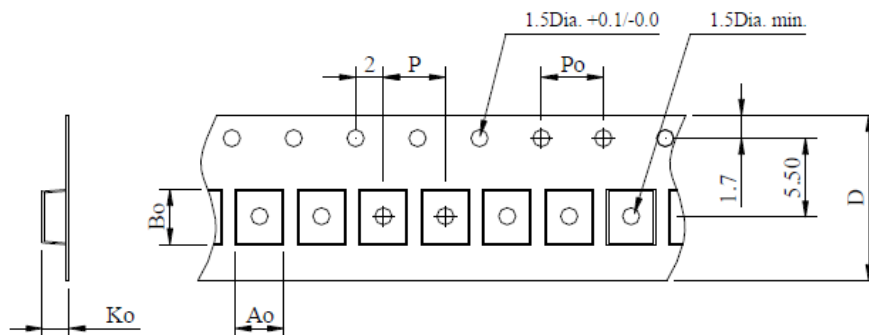
RECOMMENDED PATTERNS

UNIT : mm



H= 3.2 G= 7.30 I = 1.60 J=1.60

PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D±0.3
13"	500	10.40	10.40	5.10	16.0	4.00	24.0

ANNOTATION

All specifications shown herein are typical values and are not guaranteed. It is recommended to test in the application for suitability.