

SHIELDED POWER INDUCTORS

MEC series: SP104



- High reliability
- Low profile of 4.0mm.
- Size: 10.3x10.5x4.0mm
- Inductance Range: 1.5uh – 330uh
- Saturation Current Range: 0.70A – 10.0A
- ROHS & REACH compliant, halogen and lead free.

Temperature Range: -40°C to +125°C.

Reel Quantity: 1000pcs

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

Part Number	Inductance (μH)	DCR (mΩ) (Max)	Isat (A) (Max)	Irms (A) (Max)
SP104-1R5N	1.5±30%	8.1	10.0	6.5
SP104-2R5N	2.5±30%	10.5	7.5	6.1
SP104-3R8N	3.8±30%	13	6.0	5.5
SP104-5R2N	5±30%	22	5.5	5.4
SP104-7R0N	7±30%	27	4.8	4.5
SP104-100N	10±30%	35	4.4	3.8
SP104-120N	12±30%	46	3.7	3.4
SP104-150N	15±30%	50	3.6	3.1
SP104-180N	18±30%	69	3.1	2.6
SP104-220N	22±30%	73	2.9	2.5
SP104-270N	27±30%	88	2.6	2.3
SP104-330N	33±30%	93	2.3	2.2
SP104-390N	39±30%	127	2.2	2.0
SP104-470N	47±30%	128	2.1	1.9
SP104-560N	56±30%	188	1.65	1.5
SP104-680N	68±30%	213	1.5	1.42
SP104-820N	82±30%	283	1.45	1.3
SP104-L101N	100±30%	304	1.35	1.25
SP104-L121N	120±30%	375	1.2	1.08
SP104-L151N	150±30%	506	1.15	0.85
SP104-L181N	180±30%	568	1.0	0.75
SP104-L221N	220±30%	756	0.92	0.7
SP104-L271N	270±30%	853	0.84	0.55
SP104-L331N	330±30%	1090	0.70	0.52

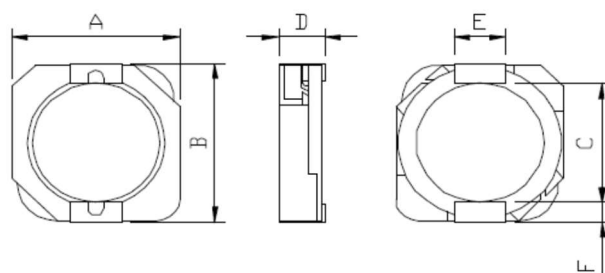
Test Frequency: 100KHz/1V

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).

SHAPES AND DIMENSIONS

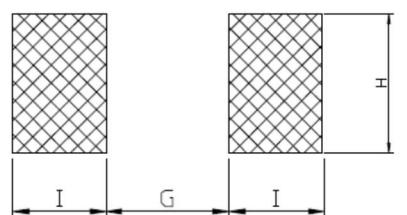
UNIT : mm



A=10.3 max. B=10.4 max. C=7.70 REF D=4.0 max. E=3.0 REF F=1.2 REF

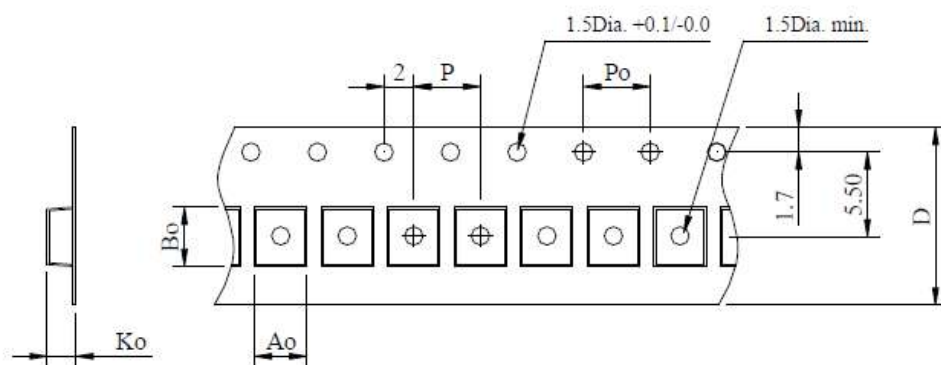
RECOMMENDED PATTERNS

UNIT : mm



H= 3.20 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"	1,000	10.40	10.40	4.10	16.00	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.