

SMD Power Inductors –

Shielded Drum Core – I1172 & I1173 Series

INTER OUTSTANDING ELECTRONICS



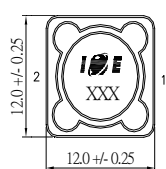
- Inductance Range: 0.8 to 51 μH
- Size: 12.2mm x 12.2mm Max.
- Rating Current: Up to 14A
- Operating temperature: -25°C to $+125^{\circ}\text{C}$
- RoHS compliant
- Can be customized under customer's request

Models:

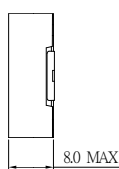
Part Number		Inductance @ 0 A _{DC} (μH)	Inductance @ I _{rated} (μH) MIN	I _{rated} (A _{DC})	DCR(m Ω)		Saturation Current -25%(A)	Heating Current +40 $^{\circ}\text{C}$ (A)	Core Loss Factor (K2)	SRF (MHz)
					TYP	MAX				
I1172.132	I1173.132	1.3 $\pm 30\%$	0.8	14	2.3	3	15	14	90	>40
I1172.202	I1173.202	2.0 $\pm 30\%$	1.3	10	4.5	6	13	10	110	>40
I1172.272	I1173.272	2.7 $\pm 30\%$	1.8	9	5.8	7.3	11	9	130	>40
I1172.372	I1173.372	3.7 $\pm 30\%$	2.4	8.3	6.8	8.5	9.2	8.3	150	37
I1172.472	I1173.472	4.7 $\pm 30\%$	3.1	7.9	7.6	9.5	8.2	7.9	170	33
I1172.602	I1173.602	6.0 $\pm 30\%$	3.9	6	13	16.5	6.9	6	200	30
I1172.762	I1173.762	7.6 $\pm 30\%$	4.9	5.7	14.3	18.5	6.2	5.7	220	25
I1172.103	I1173.103	10 $\pm 20\%$	7.5	5.2	17.3	21.8	5.5	5.2	250	20
I1172.123	I1173.123	12 $\pm 20\%$	9	4.5	23.3	29	5.1	4.5	280	18
I1172.153	I1173.153	15 $\pm 20\%$	11.3	4.1	28.3	35.4	4.4	4.1	300	15
I1172.183	I1173.183	18 $\pm 20\%$	13.5	4	29.4	37	4.3	4	340	13
I1172.223	I1173.223	22 $\pm 20\%$	16.5	3.8	33.2	42	3.8	3.8	370	12
I1172.273	I1173.273	27 $\pm 20\%$	20.3	3.4	36.2	45.9	3.4	3.6	410	11
I1172.333	I1173.333	33 $\pm 20\%$	24.8	3	49.3	64.8	3	3.1	460	10
I1172.393	I1173.393	39 $\pm 20\%$	29.3	2.7	65.2	81.5	2.8	2.7	490	8
I1172.473	I1173.473	47 $\pm 20\%$	35.3	2.6	71.4	89	2.6	2.6	550	7
I1172.683	I1173.683	68 $\pm 20\%$	51	2.1	108	135	2.1	2.1	670	6

Mechanical Details:

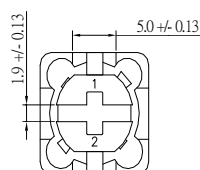
I1172



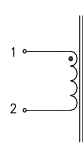
TOP VIEW



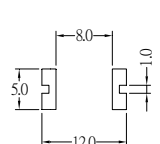
SIDE VIEW



BOTTOM VIEW

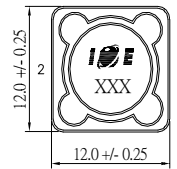


SCHEMATIC

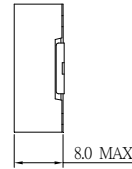


SUGGESTED PAD LAYOUT

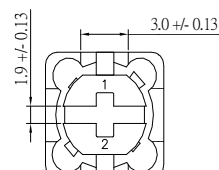
I1173



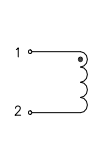
TOP VIEW



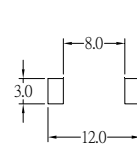
SIDE VIEW



BOTTOM VIEW



SCHEMATIC



SUGGESTED PAD LAYOUT

These data are for models selection. For detail specifications and customized requirement, please contact IOE