

POWER INDUCTORS FOR S.M.P.S

1. Surface-mount construction.
2. Nickel alloy core for maximum LI^2 per unit volume.
3. Inductance at rated current.
4. Built to meet MIL-T-27, Grade 5, Class V.
5. Operating Temperature: -55°C to $+155^{\circ}\text{C}$.
6. Thermal Shock: 25 cycles, MIL-STD-202E, Test Method 107C, Condition A-1.

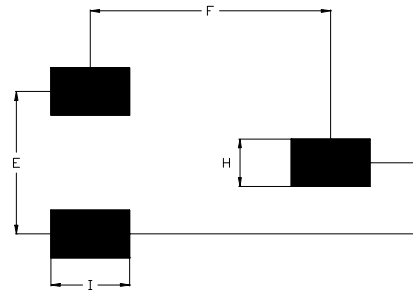
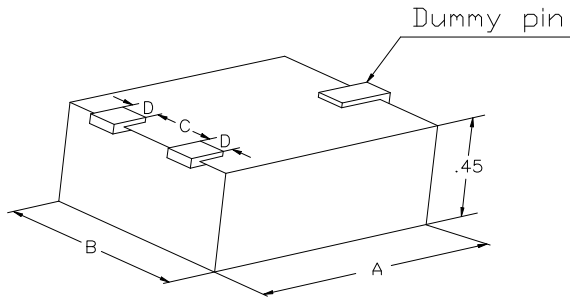


Electrical Characteristics:

5T6172-XXX	D.C CURRENT (A)	INDUCTANCE (μH)	D.C RESISTANCE (mOHMS)	MAX $E_{\text{OUT}}(\text{V})$	SIZE
001	20	4	2.5	4	2
002	20	10	3.5	6	3
003	20	12	2.5	9	2
004	20	20	5	12	4
005	20	35	3.5	45	3
006	20	60	5	100	4
007	10	5	7	3	1
008	10	16	7	6	1
009	10	16	10	5	2
010	10	40	14	10	3
011	10	50	10	30	2
012	10	80	20	20	4
013	10	125	14	100	3
014	10	200	20	100	4
015	5	20	28	6	1
016	5	55	28	12	1
017	5	60	40	12	2
018	5	140	56	24	3
019	5	200	40	60	2
020	5	300	80	48	4
021	5	500	56	100	3
022	5	800	80	100	4
023	2.5	80	112	12	1
024	2.5	200	112	24	1
025	2.5	240	160	24	2
026	2.5	560	224	48	3
027	2.5	800	160	100	2
028	2.5	1200	320	100	4
029	2.5	2mH	224	100	3
030	2.5	3.2mH	320	100	4
031	1.25	1320	450	24	1
032	1.25	1000	640	48	2
033	1.25	2200	900	100	3
034	1.25	4800	1.3O	100	4
035	1.25	1.8mH	450	48	1
036	1.25	3.2mH	640	100	2
037	1.25	8mH	900	100	3
038	1.25	13mH	1.3O	100	4

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Mechanical Dimensions:



Recommended PCB layout.

SIZE	A	B	C	D	E	F	G	H	I
1	.60	.50	.20	.10	0.30	0.46	.10	0.15	0.20
2	.80	.70	.30	.15	0.45	0.56	.15	0.25	0.30
3	1.10	.90	.30	.20	0.50	0.86	.20	0.25	0.30
4	1.25	1.10	.50	.20	0.70	0.96	.20	0.25	0.30

All dimensions are in inches, all tolerances are +/-0.010 inches