

SMD HIGH CURRENT TOROID POWER INDUCTORS STRD SERIES



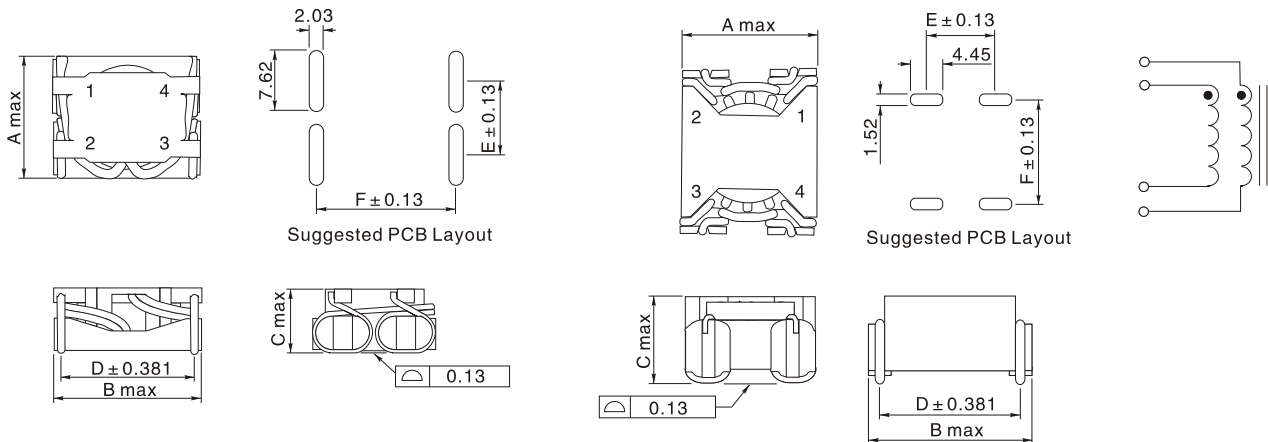
FEATURES:

- Toroid winding eliminates stray electromagnetic emissions
- Base material meets flammability requirements of UL 94V-0
- Surface mounting
- Current Rating: up to 23.8Adc
- Frequency Range: up to 1MHz
- RoHS compliant

ELECTRICAL CHARACTERISTICS:@25°C

Part Number	Inductance L0(uH) ± 20% 100KHz,0.1V	Rated current IDC (A)	Inductance Lidc(uH) ± 20% 100KHz,0.1V	DCR (mΩ).	Reference ET (Volt-usec)
STRD37-770M	77	1.1	43.6	309	7.83
STRD44-390M	39.5	2.7	21.9	90.5	6.9
STRD50-6R5M	6.575	6.4	4.025	23	3.135
STRD44H-R88M	0.88	23.8	0.53	3	1
STRD50H-2R1M	2.1	21	1.1	2.5	1.75
STRD68H-4R0M	4	22.4	2.1	3.4	3.25

PHYSICAL CHARACTERISTICS: WINDING:



Part No.	A(Max)	B(Max)	C(Max)	D(± 0.381)	E(± 0.13)	F(± 0.13)
STRD44H-R88M	18.16	21.97	9.91	10.3	9.14	19.56
STRD50H-2R1M	20.32	23.11	9.91	20.32	11.18	20.57
STRD68H-4R0M	25.4	28.19	9.91	25.4	15.75	25.65
STRD37-770M	14.22	16.38	8.89	13.21	8.64	13.46
STRD44-390M	14.99	18.16	9.91	15.24	9.4	15.49
STRD50-6R5M	17.02	19.56	9.91	16.51	11.3	16.76

NOTES:

- Electrical specifications at 25°C
- Inductance tested at 100 kHz, 0.1 Vrms on HP 4192A
- Operating temperature: -40°C to +130°C(Including self temperature rise)
- Reference values are for an inductor with a 55°C temperature rise. The core loss is 10% of the copper loss at the ET listed and 500kHz.
- Core does not saturate abruptly. The ET and DC current are limited by the desired inductance and temperature rise.
- In high volt-time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. In order to determine the approximate total losses (or temperature rise) for a given application, both copper and core losses should be taken into account.