

COUPLED INDUCTORS, COMMON MODE CHOKES SF1812S SERIES



FEATURES:

- Coupled inductor optimized for xDSL filtering applications
- Can be used as a common mode choke, 1:1 transformer or in SEPIC applications
- Terminations RoHS compliant
- Packaging 600/7" reel; 2200/13" reel

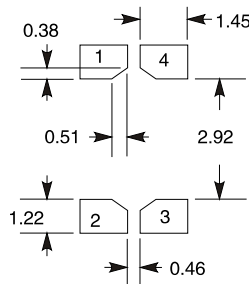
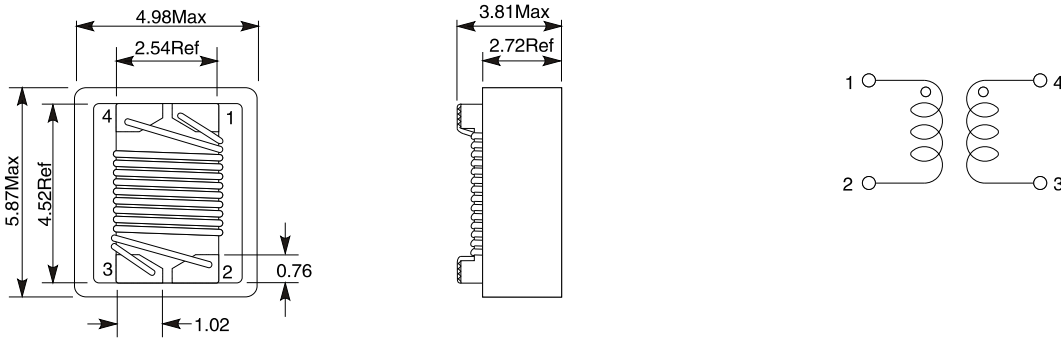
ELECTRICAL CHARACTERISTICS:

Part number	Inductance ± 20%(uH) 100KHZ,0.1V	Q 1MHz	DCR Max(Ω)	SRF Min(MHz)	Isat (mA)	Irms (mA)
SF1812S-1R0M	1.0	38	0.2	285	2400	2100
SF1812S-2R2M	2.2	29	0.33	175	1500	1200
SF1812S-4R7M	4.7	43	0.41	102	1500	1000
SF1812S-100M	10	35	0.74	74	800	780
SF1812S-150M	15	37	0.96	65	700	710
SF1812S-220M	22	38	1.84	54	500	530
SF1812S-390M	39	39	2.6	5.7	450	420
SF1812S-470M	47	40	2.66	4.8	400	390

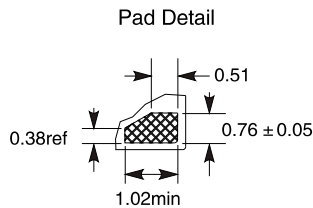
1. DC current at which the inductance drops 10% (typ) from its value without current.
2. Current that causes a 40 °C temperature rise from 25 °C ambient. This information is for reference only and does not represent absolute maximum ratings.
3. Electrical specifications at 25 °C .
4. Ambient temperature -40 °C to +85 °C with I_{rms} current
5. Maximum part temperature +125 °C (ambient + temp rise)
6. Storage temperature Component: -40 °C to +125 °C . Tape and reel packaging: -40 °C to +80 °C

PHYSICAL CHARACTERISTICS & WINDING:

Dimensions are in mm

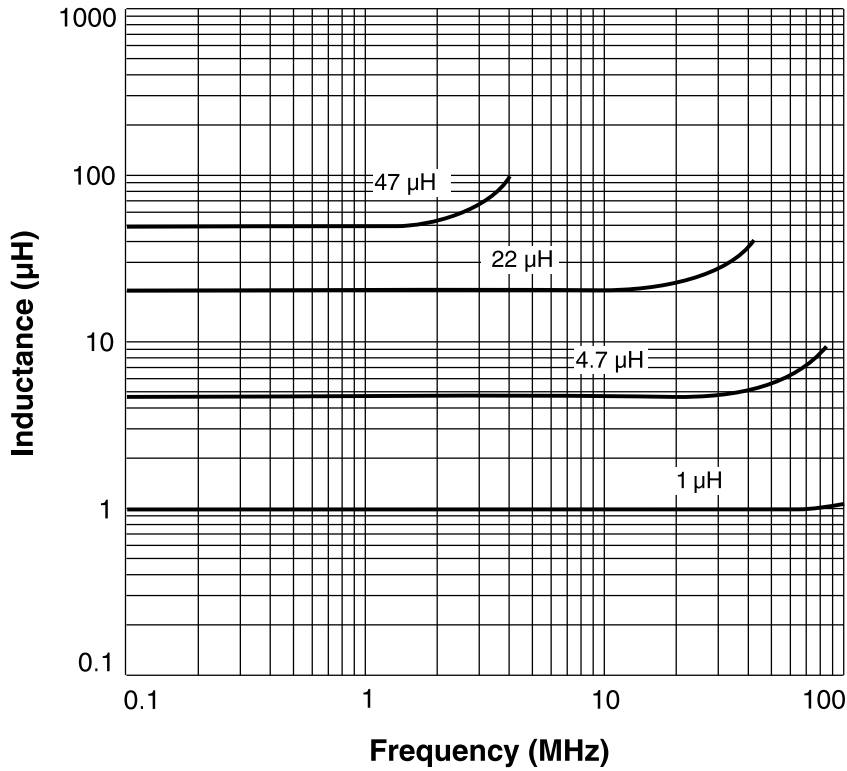


Recommended Land Pattern



PERFORMANCE CURVE:

Typical L vs Frequency



Typical Q vs Frequency

