

CTSD18F Series

From 0.47 μH to 1000 μH

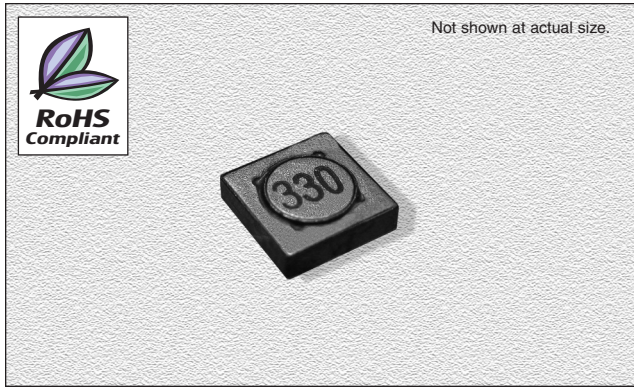
SPECIFICATIONS

Parts are available in $\pm 20\%$ tolerance only.

*I_{rms}: Average current for 40°C temp. rise from 25°C ambient.

**I_{sat}: DC current at which the inductance drops 30% typ. from its value without current.

Part Number	Inductance ($\mu\text{H} \pm 20\%$)	L Test Freq. (KHz)	DCR Max. (Ω)	*I _{rms} Max. (A)	**I _{sat} Max. (A)
CTSD18F-R47M	0.47	100	0.0251	3.58	4.63
CTSD18F-R82M	0.82	100	0.0309	3.24	3.60
CTSD18F-1R2M	1.20	100	0.0368	2.97	2.95
CTSD18F-1R5M	1.50	100	0.0431	2.73	2.49
CTSD18F-2R2M	2.20	100	0.0498	2.55	2.16
CTSD18F-3R3M	3.30	100	0.0756	2.07	1.71
CTSD18F-4R7M	4.70	100	0.103	1.77	1.54
CTSD18F-6R2M	6.20	100	0.125	1.61	1.30
CTSD18F-8R2M	8.20	100	0.169	1.38	1.12
CTSD18F-100M	10.0	100	0.198	1.28	0.982
CTSD18F-150M	15.0	100	0.285	1.06	0.831
CTSD18F-220M	22.0	100	0.421	0.876	0.689
CTSD18F-330M	33.0	100	0.632	0.715	0.568
CTSD18F-470M	47.0	100	0.976	0.578	0.470
CTSD18F-680M	68.0	100	1.225	0.514	0.390
CTSD18F-820M	82.0	100	1.625	0.446	0.356
CTSD18F-101M	100	100	1.838	0.419	0.321
CTSD18F-151M	150	100	2.725	0.345	0.263
CTSD18F-221M	220	100	3.688	0.296	0.217
CTSD18F-331M	330	100	5.250	0.248	0.177
CTSD18F-471M	470	100	7.990	0.201	0.148
CTSD18F-681M	680	100	11.60	0.167	0.124
CTSD18F-821M	820	100	15.44	0.145	0.113
CTSD18F-102M	1000	100	17.51	0.136	0.102



CHARACTERISTICS

Description: SMD (shielded) power inductor

Applications: Digital cameras, CD players, cellular phones, PDAs, PCMCIA cards, GPS systems, etc.

Operating Temperature: -40°C to +85°C

Inductance Tolerance: $\pm 20\%$

Testing: Tested on a HP4285A at 100 KHz

Packaging: Tape & Reel

Marking: Parts are marked with inductance code

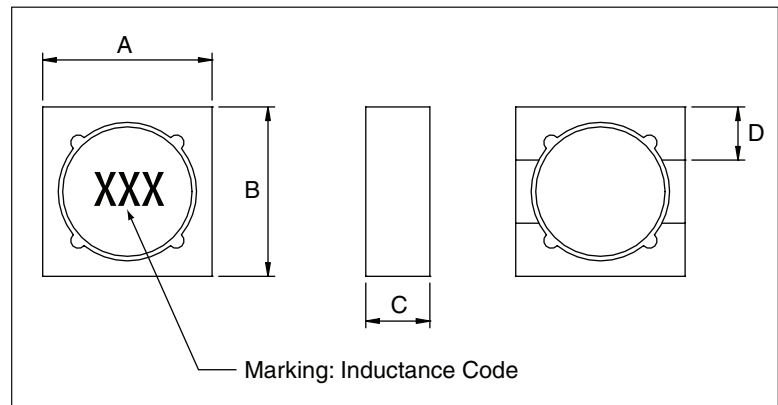
Miscellaneous: RoHS Compliant.

Additional Information: Additional electrical & physical information available upon request

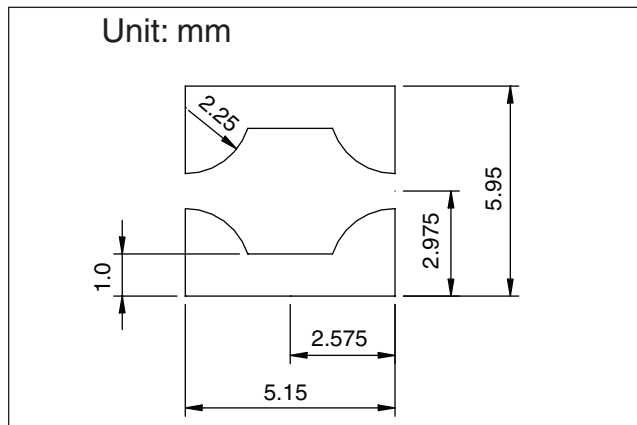
Samples available. See website for ordering information.

PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Typ.	D Max.
mm	5.2	5.2	1.8	1.5
inches	0.205	0.205	0.071	0.059



PAD LAYOUT



06.11.07