

CTIHL P6826AF

Series

From 2.2 μH to 100 μH



CHARACTERISTICS

Description: SMD (shielded) Power Inductor.

Applications: Notebook, Desktop, Server applications, Low profile, high current power supplies, battery powered devices, DC/DC converter for Field Programmable Gate Array (FPGA).

Operating Temperature: -40°C to +125°C (The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application)

Inductance Tolerance: $\pm 20\%$

Irms: Will cause the coil temperature rise approximately ΔT of 40°C (keep 1 Min.)

Isat 1: Will cause L0 to drop 20% typical. (keep quickly)

Isat 2: Will cause L0 to drop 30% typical. (keep quickly)

Testing: Inductance is tested on an HP4285A at 100KHz, 1.0V

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.

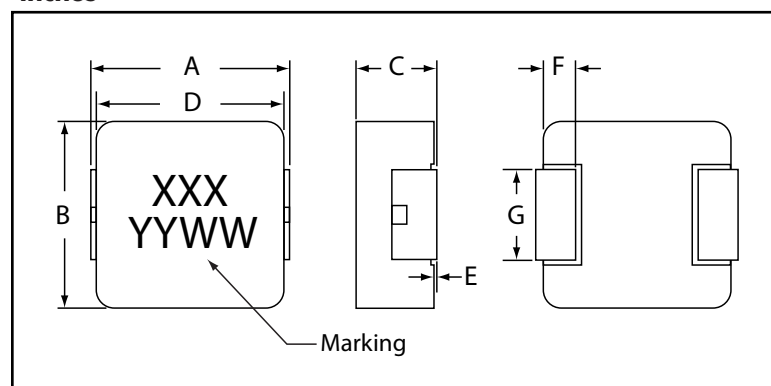
SPECIFICATIONS

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

Part Number	Inductance (μH)	Irms (A) Typ.	Isat 1 (A) Typ.	Isat 2 (A) Typ.	DCR (m Ω) Typ.	DCR (m Ω) Max.
CTIHL P6826AF-2R2M	2.20	43.5	47	62	2.4	2.7
CTIHL P6826AF-3R3M	3.30	28	45	54	3.5	3.9
CTIHL P6826AF-4R7M	4.70	25	41	50	4.8	5.5
CTIHL P6826AF-5R6M	5.60	21	40	45	5.8	7.05
CTIHL P6826AF-6R8M	6.80	19	32	39	8.4	9.2
CTIHL P6826AF-8R2M	8.20	18	25	31	9.6	10.8
CTIHL P6826AF-100M	10.0	16.5	24	29	11.8	13.0
CTIHL P6826AF-150M	15.0	12.5	23	27	17.8	20.5
CTIHL P6826AF-220M	22.0	12	18	23	25.1	26.5
CTIHL P6826AF-330M	33.0	10.7	15	20	38.0	44.0
CTIHL P6826AF-470M	47.0	8.7	9.5	16	48.0	55.0
CTIHL P6826AF-101M	100	5.3	6.5	12	102.0	118

PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F	G
					Max.		
mm	17.3 $\pm$ 0.4	16.9 $\pm$ 0.3	6.7 $\pm$ 0.3	16.9 $\pm$ 0.3	0.25	2.1 $\pm$ 0.3	11.9 $\pm$ 0.3
inches	0.69 $\pm$ 0.016	0.66 $\pm$ 0.012	0.26 $\pm$ 0.012	0.66 $\pm$ 0.012	0.01	0.08 $\pm$ 0.012	0.47 $\pm$ 0.012



PAD LAYOUT

Unit: mm

