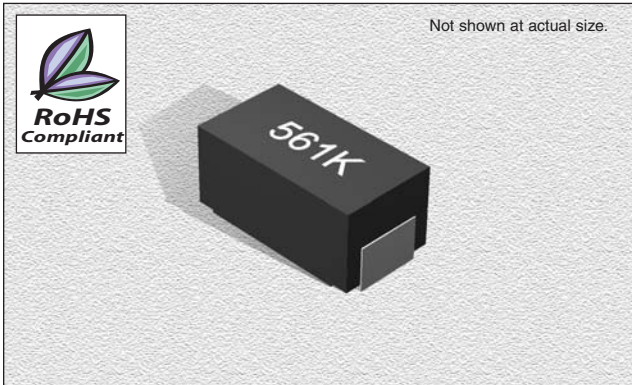


# CTIHSM5832F Series

From 1.0  $\mu$ H to 18,000  $\mu$ H

## SPECIFICATIONS

Part numbers indicate tolerance available.  
K =  $\pm 10\%$

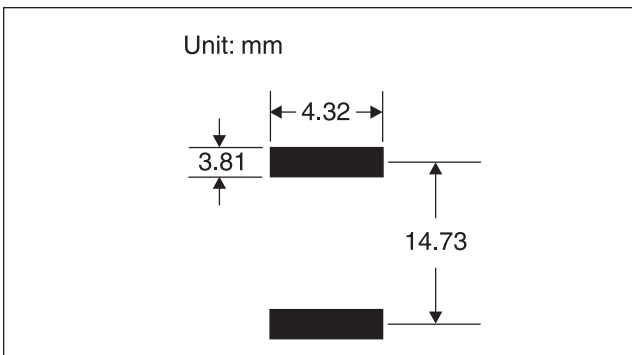


### CHARACTERISTICS

- Description:** SMD Molded High Current Inductors
- Applications:** Excellent power line noise filters, filters for switching regulated power supplies, DC/DC converters, SCR and Triac controls and RFI suppression.
- Operating Temperature:** -55°C to +125°C
- Inductance Tolerance:**  $\pm 10\%$
- Rated Current:** Based on the inductance change within 10% of initial value and temperature rise of initial value less than 30°C within coil body
- Testing:** Tested on a HP4284A at 1KHz
- Packaging:** Tape & Reel
- Miscellaneous:** RoHS Compliant.
- Marking:** Parts are marked with inductance code & tolerance
- Additional Information:** Additional electrical & physical information available upon request
- Samples available. See website for ordering information.**

Part Number	Inductance ( $\mu$ H)	Test Freq. (KHz)	DCR Max. ( $\Omega$ )	Saturation Current DC (Max.) (A)	Suggested Rated Current AC (A)
CTIHSM5832F-1R0K	1.0	1.0	0.010	9.0	6.2
CTIHSM5832F-1R2K	1.2	1.0	0.011	8.8	5.6
CTIHSM5832F-1R5K	1.5	1.0	0.012	8.7	5.0
CTIHSM5832F-1R8K	1.8	1.0	0.013	8.6	4.4
CTIHSM5832F-2R2K	2.2	1.0	0.015	8.5	4.0
CTIHSM5832F-2R7K	2.7	1.0	0.017	8.4	3.7
CTIHSM5832F-3R3K	3.3	1.0	0.020	8.3	3.4
CTIHSM5832F-3R9K	3.9	1.0	0.021	7.9	3.1
CTIHSM5832F-4R7K	4.7	1.0	0.023	7.4	2.8
CTIHSM5832F-5R6K	5.6	1.0	0.024	7.0	2.6
CTIHSM5832F-6R8K	6.8	1.0	0.038	6.1	2.3
CTIHSM5832F-8R2K	8.2	1.0	0.047	5.1	2.0
CTIHSM5832F-100K	10	1.0	0.053	4.3	1.8
CTIHSM5832F-120K	12	1.0	0.068	3.9	1.7
CTIHSM5832F-150K	15	1.0	0.078	3.5	1.6
CTIHSM5832F-180K	18	1.0	0.083	3.2	1.5
CTIHSM5832F-220K	22	1.0	0.120	2.8	1.3
CTIHSM5832F-270K	27	1.0	0.140	2.3	1.2
CTIHSM5832F-330K	33	1.0	0.170	1.9	1.1
CTIHSM5832F-390K	39	1.0	0.190	1.8	1.0
CTIHSM5832F-470K	47	1.0	0.215	1.77	.93
CTIHSM5832F-560K	56	1.0	0.236	1.71	.90
CTIHSM5832F-680K	68	1.0	0.305	1.43	.82
CTIHSM5832F-820K	82	1.0	0.357	1.14	.75
CTIHSM5832F-101K	100	1.0	0.452	0.95	.68
CTIHSM5832F-121K	120	1.0	0.530	0.88	.63
CTIHSM5832F-151K	150	1.0	0.609	0.82	.58
CTIHSM5832F-181K	180	1.0	0.809	0.75	.54
CTIHSM5832F-221K	220	1.0	1.100	0.69	.48
CTIHSM5832F-271K	270	1.0	1.270	0.64	.43
CTIHSM5832F-331K	330	1.0	1.420	0.59	.38
CTIHSM5832F-391K	390	1.0	1.890	0.54	.34
CTIHSM5832F-471K	470	1.0	2.210	0.49	.31
CTIHSM5832F-561K	560	1.0	2.200	0.46	.28
CTIHSM5832F-681K	680	1.0	2.730	0.43	.25
CTIHSM5832F-821K	820	1.0	3.780	0.4	.23
CTIHSM5832F-102K	1000	1.0	4.200	0.37	.21
CTIHSM5832F-122K	1200	1.0	5.510	0.32	.19
CTIHSM5832F-152K	1500	1.0	7.350	0.29	.17
CTIHSM5832F-182K	1800	1.0	8.660	0.25	.16
CTIHSM5832F-222K	2200	1.0	9.710	0.22	.14
CTIHSM5832F-272K	2700	1.0	11.29	0.2	.13
CTIHSM5832F-332K	3300	1.0	15.60	0.18	.12
CTIHSM5832F-392K	3900	1.0	20.74	0.16	.11
CTIHSM5832F-472K	4700	1.0	23.10	0.14	.10
CTIHSM5832F-562K	5600	1.0	26.40	0.12	.082
CTIHSM5832F-682K	6800	1.0	29.90	0.10	.082
CTIHSM5832F-822K	8200	1.0	32.20	0.08	.065
CTIHSM5832F-103K	10000	1.0	38.10	0.06	.050
CTIHSM5832F-123K	12000	1.0	45.20	0.04	.050
CTIHSM5832F-153K	15000	1.0	48.30	0.04	.039
CTIHSM5832F-183K	18000	1.0	52.50	0.04	.039

### PAD LAYOUT



### PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Max.	D	E
mm	16.2	8.13	7.24	2.29 $\pm$ 0.5	5.08 $\pm$ 0.64
inches	0.64	0.32	0.285	0.09 $\pm$ 0.02	0.20 $\pm$ 0.025

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