

## CTDS3308F Series

From 2.2  $\mu\text{H}$  to 470  $\mu\text{H}$



### SPECIFICATIONS

Part numbers indicate inductance tolerance available.  
L =  $\pm 15\%$ , M =  $\pm 20\%$

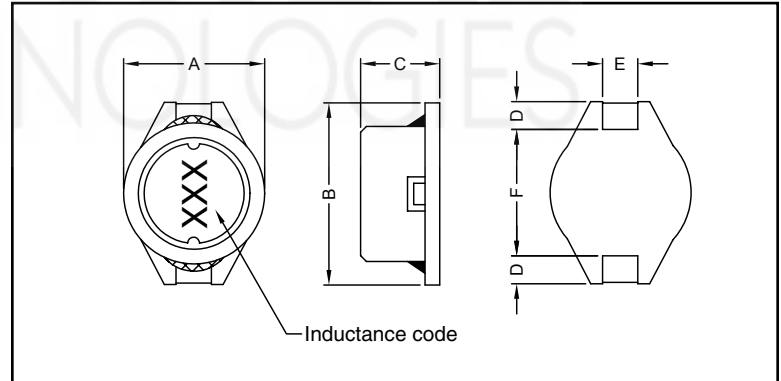
Part Number	Inductance ( $\mu\text{H}$ )	L Test Freq. (KHz)	Q Ref.	SRF Typ. (MHz)	DCR Max. (m $\Omega$ )	IDC (A)
CTDS3308F-2R2M	2.2	100	30	90	45	3.50
CTDS3308F-3R0M	3.0	100	30	70	62	3.00
CTDS3308F-3R9M	3.9	100	30	60	70	2.80
CTDS3308F-4R7M	4.7	100	30	50	78	2.50
CTDS3308F-6R8M	6.8	100	30	50	100	2.20
CTDS3308F-100M	10	100	30	38	145	2.00
CTDS3308F-120M	12	100	35	29	185	1.75
CTDS3308F-150M	15	100	35	30	200	1.50
CTDS3308F-180M	18	100	35	25	270	1.40
CTDS3308F-220M	22	100	40	22	300	1.30
CTDS3308F-270M	27	100	40	18	400	1.20
CTDS3308F-330M	33	100	40	17	450	1.10
CTDS3308F-390M	39	100	40	17	560	0.95
CTDS3308F-470M	47	100	40	15	650	0.80
CTDS3308F-560M	56	100	40	14	680	0.75
CTDS3308F-680M	68	100	40	12	800	0.70
CTDS3308F-820M	82	100	30	11	1200	0.65
CTDS3308F-101M	100	100	45	9.5	1400	0.60
CTDS3308F-121M	120	100	50	8.5	1520	0.55
CTDS3308F-151M	150	100	50	8.0	1800	0.50
CTDS3308F-181M	180	100	50	7.0	2200	0.45
CTDS3308F-221M	220	100	50	6.5	2200	0.40
CTDS3308F-271L	270	100	50	5.5	3100	0.35
CTDS3308F-331L	330	100	45	5.2	3600	0.30
CTDS3308F-391L	390	100	45	5.0	4600	0.25
CTDS3308F-471L	470	100	50	4.5	5100	0.20

### CHARACTERISTICS

- Description:** SMD (shielded) Power Inductor.
- Applications:** DC-DC converter, notebook computers, PDA, cell phones, step-up or step-down converters, flash memory, etc.
- Operating Temperature:** -40°C to +125°C
- Rated Current:** Based on temp. rise and  $\Delta L/L_{0A} = 10\%$  Max.
- Temp. Rise:** 40°C Max.
- Resistance to Solder Heat:** 260°C. 10 Seconds
- Inductance Tolerance:**  $\pm 15\%$ ,  $\pm 20\%$
- Testing:** Inductance is tested on a HP4285A at 100KHz, 1V
- 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	B	C	D	E	F
mm	10.1 $\pm$ 0.2	12.7 $\pm$ 0.2	2.7 $\pm$ 0.3	2.4 $\pm$ 0.2	2.2 $\pm$ 0.2	7.6 $\pm$ 0.3
inches	0.4 $\pm$ 0.009	0.5 $\pm$ 0.009	0.1 $\pm$ 0.012	0.09 $\pm$ 0.009	0.08 $\pm$ 0.009	0.3 $\pm$ 0.012



### PAD LAYOUT

