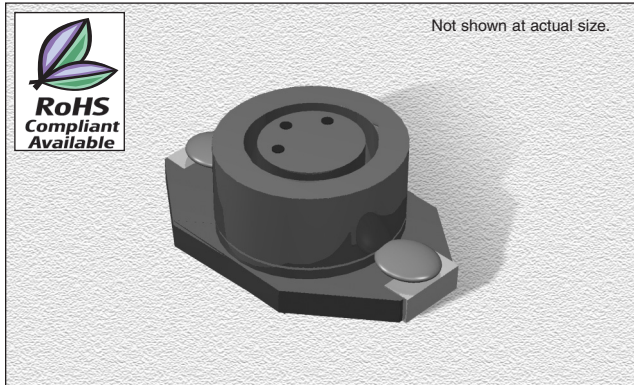


# CTDS3316 Series

## From 1.0 $\mu$ H to 1000 $\mu$ H

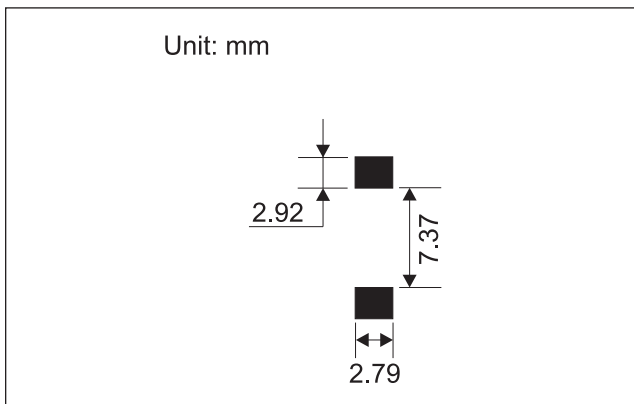
### ENGINEERING KIT #19



### CHARACTERISTICS

**Description:** SMD (shielded) power inductor  
**Applications:** Ideal for high performance DC/DC converter applications, computers, LCD displays and telecommunication equipment. Especially those requiring shielding  
**Operating Temperature:** -40°C to +85°C  
**Inductance Tolerance:**  $\pm 20\%$   
**Testing:** Inductance is tested on a HP4285A at 100 kHz  
**Packaging:** Tape & Reel  
**Marking:** Color dots (nH) OR stamped with Inductance code ( $\mu$ H).  
**Miscellaneous:** **RoHS Compliant available.** Magnetically shielded  
**Additional Information:** Additional electrical & physical information available upon request

### PAD LAYOUT



### SPECIFICATIONS

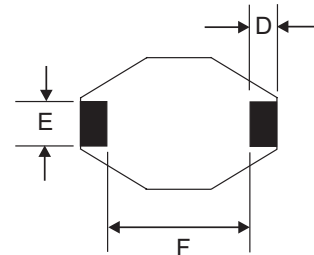
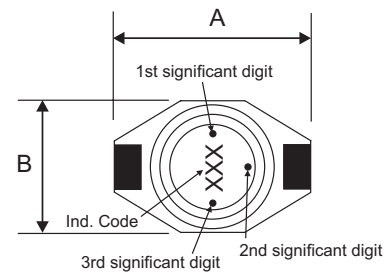
Parts are available in  $\pm 20\%$  tolerance only.  
**CTDS3316PE Please specify "F" for RoHS Compliant**  
 \*40°C rise at Irms  
 \*\*Inductance drop 10% typ. at Isat

Part Number	Inductance ( $\mu$ H)	L Test Freq. (kHz)	DCR Max. ( $\Omega$ )	*Irms (A)	**Isat (A)	SRF Typ. (MHz)
CTDS3316P_-102	1.0	100	0.021	5.0	5.6	110
CTDS3316P_-152	1.5	100	0.022	4.5	5.2	90
CTDS3316P_-222	2.2	100	0.032	3.8	5.0	60
CTDS3316P_-332	3.3	100	0.039	3.3	3.9	55
CTDS3316P_-472	4.7	100	0.054	2.7	3.2	30
CTDS3316P_-682	6.8	100	0.075	2.2	2.8	30
CTDS3316P_-103	10	100	0.101	2.0	2.4	28
CTDS3316P_-153	15	100	0.150	1.5	2.0	20
CTDS3316P_-223	22	100	0.207	1.3	1.6	15
CTDS3316P_-333	33	100	0.334	1.1	1.4	12
CTDS3316P_-473	47	100	0.472	0.8	1.0	10
CTDS3316P_-683	68	100	0.660	0.7	0.9	10
CTDS3316P_-104	100	100	1.110	0.6	0.8	7
CTDS3316P_-154	150	100	1.550	0.5	0.6	6
CTDS3316P_-224	220	100	2.000	0.37	0.5	5
CTDS3316P_-105	1000	100	8.300	0.17	0.32	2

### PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Max.	D	E	F
mm	12.95	9.4	5.08	2.54	2.54	7.62
inches	0.51	0.37	0.2	0.1	0.1	0.3

Parts will be marked with Significant Digit Dots OR Inductance Code



09.19.08