

# CTCDRH105RF Series

## From 0.8 $\mu$ H to 1,000 $\mu$ H

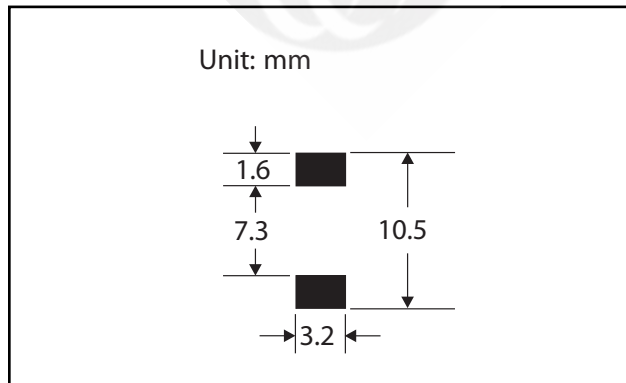
### ENGINEERING KIT #42



### CHARACTERISTICS

- Description:** SMD (shielded) power inductor
- Applications:** Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters, etc.
- Operating Temperature:** -40°C to +100°C
- Inductance Tolerance:**  $\pm 30\%$
- Testing:** Tested on an HP4285A at 100kHz, 0.25Vrms, 0Adc
- 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.**

### PAD LAYOUT



### SPECIFICATIONS

Parts are available in  $\pm 30\%$  inductance tolerance only.  
 \*Saturation Current: This indicates the value of current when the inductance is 35% lower than its initial value at D.C superposition or D.C. current.  
 \*\*Temperature Current: To load current onto the components under normal ambience, which cause the temp. change as  $\Delta T=40^\circ\text{C}$  or more lower current.  
 Please refer saturated current or the minimum temp. current as standard.

Part Number	Inductance ( $\mu\text{H}\pm 30\%$ )	L Test Freq. (kHz)	DCR Max. (m $\Omega$ )	*Saturation Current (A)	**Temp. Current (A)
CTCDRH105RF-0R8N	0.8	100	5.0	13.5	11.5
CTCDRH105RF-1R5N	1.5	100	6.0	10.5	10.3
CTCDRH105RF-2R2N	2.2	100	8.0	9.25	9.20
CTCDRH105RF-3R3N	3.3	100	11.0	8.80	8.20
CTCDRH105RF-4R7N	4.7	100	13.0	8.00	7.30
CTCDRH105RF-6R8N	6.8	100	18.0	5.50	6.20
CTCDRH105RF-8R2N	8.2	100	20.0	5.00	5.50
CTCDRH105RF-100N	10	100	26.0	4.45	4.50
CTCDRH105RF-120N	12	100	33.0	4.00	4.00
CTCDRH105RF-150N	15	100	41.0	3.60	3.80
CTCDRH105RF-180N	18	100	46.0	3.20	3.42
CTCDRH105RF-220N	22	100	61.0	2.95	3.07
CTCDRH105RF-270N	27	100	69.0	2.70	2.76
CTCDRH105RF-330N	33	100	84.0	2.40	2.48
CTCDRH105RF-390N	39	100	106.0	2.30	2.35
CTCDRH105RF-470N	47	100	130.0	2.00	2.11
CTCDRH105RF-560N	56	100	149.0	1.90	2.00
CTCDRH105RF-680N	68	100	201.0	1.65	1.70
CTCDRH105RF-820N	82	100	227.0	1.50	1.53
CTCDRH105RF-101N	100	100	253.0	1.35	1.35
CTCDRH105RF-121N	120	100	303.0	1.28	1.28
CTCDRH105RF-151N	150	100	370.0	1.12	1.15
CTCDRH105RF-181N	180	100	419.0	1.04	1.09
CTCDRH105RF-221N	220	100	500.0	0.94	0.93
CTCDRH105RF-271N	270	100	672.0	0.84	0.85
CTCDRH105RF-331N	330	100	812.0	0.75	0.76
CTCDRH105RF-391N	390	100	953.0	0.70	0.68
CTCDRH105RF-471N	470	100	1300.0	0.60	0.60
CTCDRH105RF-561N	560	100	1430.0	0.54	0.57
CTCDRH105RF-681N	680	100	1600.0	0.52	0.54
CTCDRH105RF-821N	820	100	1770.0	0.50	0.50
CTCDRH105RF-102N	1000	100	1990.0	0.48	0.46

### PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F
	Max.	Max.	Max.			
mm	10.3	10.5	5.1	3.0 $\pm$ 0.1	7.7 $\pm$ 0.3	1.2 $\pm$ 0.15
inches	0.406	0.413	0.201	0.12 $\pm$ 0.003	0.30 $\pm$ 0.01	0.05 $\pm$ 0.006

