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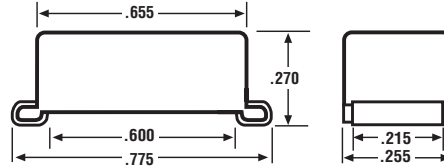
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258 East Second Street

Mineola, New York 11501-3508

## HIGH CURRENT SURFACE MOUNT INDUCTORS

TYPE 7800 1.0μH - 10mH 10% Tolerance



### NOTES:

1. INDUCTANCE measured on QuadTech/GenRad 1659 RLC Digibridge at 1.0 KHz.
2. CURRENT RATING (Rated IDC) is based on 0.25 watt power dissipation for approximately 20°C temperature rise. Depending on the application, these units may be operated at up to twice the rated current.
3. INCREMENTAL CURRENT (INCR I) is the minimum current at which the inductance will be decreased by 5% from its initial (zero-DC) value.
4. DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS.

5. OPERATING TEMPERATURE RANGE: -55° to +105°C.
6. MARKING: Printed with Caddell-Burns Part Number.
7. MATERIALS:

Core: High Saturation Flux Density Ferrite  
 Case: Glass-filled Polyphenylene Sulfide (RYTON)  
 Magnet Wire: Per FED SPEC J-W 001177/9  
 Terminals: Copper, 110 alloy  
 60 - 40 Solder Coated

### STANDARD VALUES:

Dash No.	Nominal Inductance	DCR ±20% Ohms	Min. SRF MHz	Rated IDC Amps	INCR I Amps
-01	10 μH	.031	9.0	2.8	2.8
-02	12	.033	9.0	2.7	2.6
-03	15	.038	7.0	2.6	2.2
-04	18	.040	6.2	2.5	2.1
-05	22	.047	5.6	2.3	1.9
-06	27	.052	5.0	2.2	1.7
-07	33	.058	4.4	2.1	1.5
-08	39	.065	3.8	2.0	1.4
-09	47	.072	3.4	1.9	1.3
-10	56	.095	3.0	1.6	1.2
-11	68	.10	2.7	1.5	1.1
-12	82	.14	2.4	1.3	0.98
-13	100	.19	2.1	1.1	0.89
-14	120	.25	1.9	1.0	0.80
-15	150	.35	1.7	0.85	0.72
-16	180	.39	1.5	0.80	0.66
-17	220	.44	1.3	0.75	0.58
-18	270	.50	1.2	0.71	0.54
-19	330	.58	1.0	0.66	0.47

Dash No.	Nominal Inductance	DCR ±20% Ohms	Min. SRF MHz	Rated IDC Amps	INCR I Amps
-20	390 μH	.63	0.90	0.63	0.43
-21	470	.69	0.80	0.60	0.39
-22	560	.95	0.72	0.51	0.37
-23	680	1.2	0.64	0.46	0.33
-24	820	1.4	0.56	0.42	0.30
-25	1.0 mH	1.6	0.50	0.40	0.27
-26	1.2	2.1	0.44	0.35	0.25
-27	1.5	2.4	0.40	0.32	0.22
-28	1.8	2.7	0.35	0.30	0.20
-29	2.2	3.8	0.32	0.26	0.18
-30	2.7	4.3	0.28	0.24	0.16
-31	3.3	5.7	0.25	0.21	0.15
-32	3.9	6.3	0.22	0.20	0.14
-33	4.7	8.6	0.19	0.17	0.12
-34	5.6	9.4	0.17	0.16	0.11
-35	6.8	12	0.15	0.14	0.10
-36	8.2	14	0.14	0.13	0.094
-37	10	16	0.12	0.12	0.084

### INDUCTOR SELECTION KITS FOR DESIGN ENGINEERS

Type 7800 inductors are available in kits to assist the designer of switching regulators, power supplies, and filters in selecting the optimal inductor for a given application.

Each kit contains 25 inductors, covering two decades of inductance values.

FREE REFILL order forms are included, to replace parts as they are used, or to obtain samples of additional values not included with the kits.

Kit Part No.	Dash No.'s Included	Inductance Range
7800 KIT-1	-01 thru -25	10μH-1.0mH
7800 KIT-2	-13 thru -37	100μH-10mH

Custom kits are also available.

**SEND YOUR REQUIREMENTS. PROMPT QUOTES.**