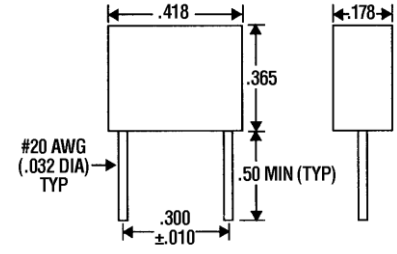
ENCAPSULATED PRINTED CIRCUIT INDUCTORS

TYPE 7600 1.0µH - 8.2µH 20% Tolerance
10µH - 10mH 10% Tolerance

Developed as a ruggedized update of the popular 6550 series, these inductors are intended for general use in filters, switch-mode power supplies and regulators, magnetic pickups, tuned circuits, and many other applications



NOTES:

1. INDUCTANCE measured on QuadTech/GenRad 1659 RLC Digibridge at 1.0 KHz. (Value less than 10 µH are measured at 10 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 higher currents.
3. INCREMENTAL CURRENT (INCR I) is the current at which the inductance will be decreased approximately 5% from its initial (zero-DC) value because of saturation.
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: Ferrite
   Magnet Wire: Per FED SPEC J-W-001177/9
   Case: Glass-filled Polyphenylene Sulfide (RYTON)

STANDARD VALUES: (Other values are available on special order.)

Part No.	Nominal Inductance	DCR ±20% Ohms	Min. SRF MHz	Rated IDC Amps	INCR I Amps
7600-01	1.0 µH	0.024	190	3.2	7.0
7600-02	1.2	0.026	140	3.1	6.4
7600-03	1.5	0.028	130	3.0	5.7
7600-04	1.8	0.030	110	2.9	5.2
7600-05	2.2	0.032	100	2.8	4.7
7600-06	2.7	0.035	95	2.7	4.3
7600-07	3.3	0.040	90	2.5	3.9
7600-08	3.9	0.043	84	2.4	3.5
7600-09	4.7	0.050	80	2.2	3.2
7600-10	5.6	0.054	67	2.1	3.0
7600-11	6.8	0.060	42	2.0	2.7
7600-12	8.2	0.067	26	1.9	2.4
7600-13	10	0.073	19	1.9	2.2
7600-14	12	0.080	14	1.8	2.0
7600-15	15	0.090	9.6	1.7	1.8
7600-16	18	0.10	7.6	1.6	1.6
7600-17	22	0.11	7.4	1.5	1.5
7600-18	27	0.13	7.0	1.4	1.3
7600-19	33	0.14	6.1	1.3	1.2
7600-20	39	0.19	5.6	1.1	1.1
7600-21	47	0.21	5.2	1.1	1.0
7600-22	56	0.23	4.8	1.0	0.94
7600-23	68	0.31	4.4	0.90	0.85
7600-24	82	0.35	4.0	0.85	0.77

Part No.	Nominal Inductance	DCR ±20% Ohms	Min. SRF MHz	Rated IDC Amps	INCR I Amps
7600-25	100 µH	0.40	3.4	0.79	0.70
7600-26	120	0.52	3.1	0.69	0.64
7600-27	150	0.59	2.8	0.65	0.57
7600-28	180	0.65	2.7	0.62	0.52
7600-29	220	0.90	2.4	0.53	0.47
7600-30	270	1.0	2.2	0.50	0.43
7600-31	330	1.4	1.8	0.42	0.39
7600-32	390	1.5	1.7	0.41	0.35
7600-33	470	1.7	1.5	0.38	0.32
7600-34	560	2.3	1.4	0.33	0.30
7600-35	680	2.6	1.3	0.31	0.27
7600-36	820	3.6	1.1	0.26	0.24
7600-37	1.0 mH	4.0	1.0	0.25	0.22
7600-38	1.2	4.5	0.96	0.24	0.20
7600-39	1.5	6.1	0.80	0.20	0.18
7600-40	1.8	6.8	0.76	0.19	0.16
7600-41	2.2	8.7	0.69	0.17	0.15
7600-42	2.7	10	0.54	0.16	0.13
7600-43	3.3	14	0.48	0.13	0.12
7600-44	3.9	16	0.46	0.13	0.11
7600-45	4.7	21	0.35	0.11	0.10
7600-46	5.6	24	0.32	0.10	0.094
7600-47	6.8	33	0.30	0.087	0.085
7600-48	8.2	38	0.29	0.081	0.077
7600-49	10	50	0.27	0.071	0.070

INDUCTOR SELECTION KITS FOR DESIGN ENGINEERS

Type 7600 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
7600 KIT-1	-01 thru -25 (1 ea)	1.0µH-100µH
7600 KIT-2	-13 thru -37 (1 ea)	10µH-1.0mH
7600 KIT-3	-25 thru -49 (1 ea)	100µH-10mH

Custom kits are also available.

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