

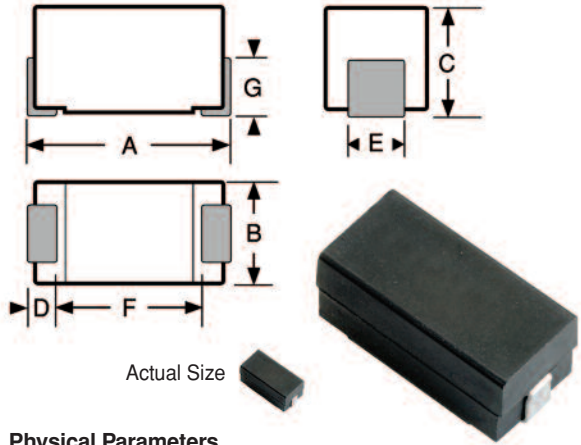
# SERIES

MIL4922



## MIL-PRF-27/367, T Level Qualified Surface Mount Power Inductors

DASH NUMBER\*  
MIL DASH  
INDUCTANCE @ 1 kHz (µH) ±15%  
DC RESISTANCE MAXIMUM (OHMS)  
CURRENT RATING MAXIMUM (Amps)  
INCREMENTAL CURRENT (Amps)



**Physical Parameters**

	Inches	Millimeters
A	0.490 to 0.520	12.44 to 13.21
B	0.230 to 0.250	5.84 to 6.35
C	0.210 to 0.230	5.33 to 5.84
D	0.050 Min.	1.27 Min.
E	0.055 to .075	1.40 to 1.91
F	0.330 (Ref. only)	8.38 (Ref. only)
G	0.120 (Ref. only)	3.04 (Ref. only)

Dimensions "A" and "C" are over terminals

- Operating Temperature Range** -55°C to +130°C
- Current Rating at 85°C Ambient** 45°C Rise
- Maximum Power Dissipation at 85°C** 0.55 W
- Inductance** Measured at 1 VAC open circuit with no DC current
- Incremental Current** The current at which the inductance will decrease by a maximum of 5% from its initial DC value
- Lead Finish** Sn63 Pb37 (Tin-Lead), Hot Solder Dipped
- Weight** 1.5 grams MAX
- DMV** 1000 Vrms at Sea Level  
500 Vrms at 70,000 feet altitude
- IR** 1000 Mohms MIN at 500 Vdc
- Vibration** MIL-STD-202, Method 204, Test Condition D
- Moisture Resistance** MIL-STD-202, Method 106
- Bond Strength** Force 2 lbs.

**Packaging** Tape & reel (24mm): 13" reel, 800 pieces max.; 7" reel not available

**Made in the U.S.A.**

M27/367 - SERIES MIL4922 T LEVEL FERRITE CORE					
DASH NUMBER*	MIL DASH	INDUCTANCE @ 1 kHz (µH) ±15%	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (Amps)	INCREMENTAL CURRENT (Amps)
-221	-01	0.22	0.0080	7.00	7.00
-271	-02	0.27	0.0085	6.75	6.75
-331	-03	0.33	0.0090	6.50	6.50
-391	-04	0.39	0.0095	6.25	6.25
-471	-05	0.47	0.0100	6.00	6.00
-561	-06	0.56	0.0105	5.80	5.80
-681	-07	0.68	0.0110	5.70	5.70
-821	-08	0.82	0.0120	5.60	5.60
-01	-09	1.00	0.013	5.50	5.50
-02	-10	1.20	0.018	4.69	4.69
-03	-11	1.50	0.020	4.45	4.45
-04	-12	1.80	0.021	4.34	4.34
-05	-13	2.20	0.029	3.70	3.70
-06	-14	2.70	0.034	3.41	3.41
-07	-15	3.30	0.038	3.23	3.23
-08	-16	3.90	0.042	3.07	3.07
-09	-17	4.70	0.047	2.90	2.90
-10	-18	5.60	0.051	2.79	2.79
-11	-19	6.80	0.058	2.61	2.61
-12	-20	8.20	0.063	2.51	2.51
-13	-21	10.0	0.071	2.36	2.36
-14	-22	12.0	0.079	2.24	2.24
-15	-23	15.0	0.089	2.11	2.11
-16	-24	18.0	0.119	1.82	1.82
-17	-25	22.0	0.152	1.61	1.61
-18	-26	27.0	0.179	1.48	1.48
-19	-27	33.0	0.222	1.33	1.33
-20	-28	39.0	0.315	1.12	1.12
-21	-29	47.0	0.362	1.04	1.04
-22	-30	56.0	0.397	1.00	1.00
-23	-31	68.0	0.418	0.97	0.97
-24	-32	82.0	0.604	0.81	0.81
-25	-33	100	0.672	0.76	0.76
-26	-34	120	0.735	0.73	0.73
-27	-35	150	0.998	0.63	0.63
-28	-36	180	1.370	0.53	0.53
-29	-37	220	1.580	0.50	0.50
-30	-38	270	1.770	0.47	0.47
-31	-39	330	2.510	0.39	0.39
-32	-40	390	2.730	0.38	0.38
-33	-41	470	3.250	0.35	0.35
-34	-42	560	3.750	0.33	0.33
-35	-43	680	4.310	0.30	0.30
-36	-44	820	6.040	0.26	0.26
-37	-45	1000	6.900	0.24	0.24
-38	-46	1200	10.00	0.200	0.200
-39	-47	1500	12.50	0.178	0.178
-40	-48	1800	16.00	0.157	0.157
-41	-49	2200	20.00	0.141	0.141
-42	-50	2700	23.00	0.131	0.131
-43	-51	3300	25.00	0.126	0.126
-44	-52	3900	33.00	0.110	0.110
-45	-53	4700	37.00	0.103	0.103
-46	-54	5600	40.00	0.100	0.100
-47	-55	6800	62.00	0.080	0.080
-48	-56	8200	66.00	0.077	0.077
-49	-57	10000	74.00	0.071	0.071
-50	-58	12000	93.00	0.065	0.065
-51	-59	15000	105.0	0.061	0.061
-52	-60	18000	143.0	0.052	0.052
-53	-61	22000	160.0	0.050	0.050

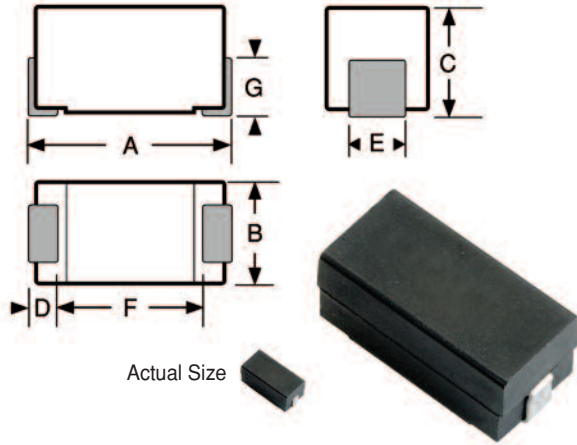
\*Complete part # must include series # PLUS the dash #

**SERIES**

**MIL4922**



**MIL-PRF-27/367, T Level Qualified Surface Mount Power Inductors**



**Military QPL Approval**  
 M27/367 T Level, Grade 5, encapsulated  
**Level T Magnetics are 100% Tested per MIL-PRF-27**  
**Group A Subgroup I which includes:**

- 1) Thermal Shock, 25 cycles
- 2) Burn In, 96 hours
- 3) Radiographic (X-Ray) Inspection

**Marking**  
 Military PIN (Part or Identifying Number)  
 Delevan Part Number  
 Delevan Cage Code Date/Lot Code (YYWWL)  
**Marking Example**  
 M27/367-38T  
 MIL4922-30LT  
 99800 1328A

<b>How to Order:</b>	(A) Inductor Series (MIL4922)
	(B) Dash Number (-01 through -53, -221, -271, -331, -391, -471, -561,-681, -821)
<b>MIL4922 -12 L T</b>	(C) Inductance Tolerance (L = 15%)
(A) (B) (C)(D)	(D) Product Level (T = T Level per MIL-PRF-27) (Blank = M Level per MIL-PRF-27)

**Mechanical Configuration** Units are encapsulated in a Surface Mount package, using an epoxy molded case. Leads are pretinned. A high resistivity ferrite core, allows for high inductance with low DC resistance.