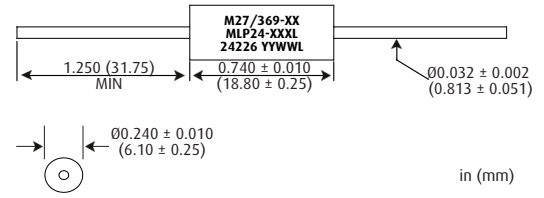


**MLP24 SERIES**



**M27 Molded Unshielded High Current Inductor**

*Military Specifications:  
MIL-PRF-27/369 Qualified*



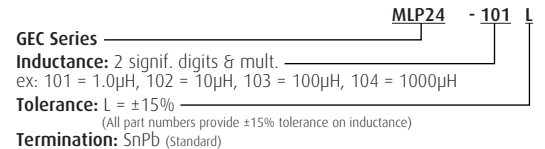
PART NUMBER	MIL DASH NO.	L $\mu$ H <sup>1</sup>	DCR $\Omega$ MAX	CURRENT RATING A DC MAX	INC I A DC
<b>M27/369 FERRITE CORE</b>					
MLP24-101L	01	1.0	0.009	6.27	6.4
MLP24-121L	02	1.2	0.010	5.95	5.8
MLP24-151L	03	1.5	0.011	5.67	5.2
MLP24-181L	04	1.8	0.012	5.43	4.8
MLP24-221L	05	2.2	0.013	5.22	4.3
MLP24-271L	06	2.7	0.014	5.03	3.9
MLP24-331L	07	3.3	0.016	4.70	3.5
MLP24-391L	08	3.9	0.017	4.56	3.2
MLP24-471L	09	4.7	0.022	4.01	2.9
MLP24-561L	10	5.6	0.024	3.84	2.7
MLP24-681L	11	6.8	0.026	3.69	2.5
MLP24-821L	12	8.2	0.028	3.55	2.2
MLP24-102L	13	10	0.033	3.27	2.0
MLP24-122L	14	12	0.037	3.09	1.8
MLP24-152L	15	15	0.040	2.97	1.6
MLP24-182L	16	18	0.044	2.84	1.5
MLP24-222L	17	22	0.050	2.66	1.4
MLP24-272L	18	27	0.070	2.25	1.2
MLP24-332L	19	33	0.075	2.17	1.1
MLP24-392L	20	39	0.084	2.05	1.0
MLP24-472L	21	47	0.104	1.84	0.93
MLP24-562L	22	56	0.130	1.65	0.85
MLP24-682L	23	68	0.145	1.56	0.77
MLP24-822L	24	82	0.152	1.53	0.71
MLP24-103L	25	100	0.208	1.30	0.64
MLP24-123L	26	120	0.283	1.12	0.58
MLP24-153L	27	150	0.330	1.04	0.52
MLP24-183L	28	180	0.362	0.99	0.48
MLP24-223L	29	220	0.505	0.84	0.43
MLP24-273L	30	270	0.557	0.80	0.39
MLP24-333L	31	330	0.650	0.74	0.35
MLP24-393L	32	390	0.770	0.68	0.32
MLP24-473L	33	470	1.03	0.59	0.29
MLP24-563L	34	560	1.14	0.56	0.27
MLP24-683L	35	680	1.50	0.49	0.25
MLP24-823L	36	820	1.98	0.42	0.22
MLP24-104L	37	1000	2.30	0.39	0.20
MLP24-124L	38	1200	2.55	0.37	0.18
MLP24-154L	39	1500	3.00	0.34	0.16
MLP24-184L	40	1800	4.00	0.30	0.15
MLP24-224L	41	2200	4.40	0.28	0.14
MLP24-274L	42	2700	5.80	0.25	0.12
MLP24-334L	43	3300	6.56	0.23	0.11
MLP24-394L	44	3900	8.63	0.20	0.10
MLP24-474L	45	4700	10.1	0.19	0.09
MLP24-564L	46	5600	11.2	0.18	0.09
MLP24-684L	47	6800	15.0	0.15	0.08
MLP24-824L	48	8200	20.8	0.13	0.07
MLP24-105L	49	10000	23.4	0.12	0.06
MLP24-125L	50	12000	26.0	0.12	0.06
MLP24-155L	51	15000	36.0	0.10	0.05
MLP24-185L	52	18000	40.0	0.09	0.05

<sup>1</sup> Measured at 1 V ac open circuit with no DC current at 1 kHz

**NOTES**

- **Operating Temperature Range:** -55°C to +130°C
- **Current Rating** is based on a 45°C temperature rise at an ambient temperature of 85°C
- **Incremental Current** is the approximate value that will cause a 5% maximum decrease in inductance at a zero DC current
- **DWV** 1000 Vrms @ Sea Level  
500 Vrms @ 70,000 Feet
- **Maximum Power Dissipation:** at 85°C, 0.50 watts
- **Weight Max:** 2.50 grams
- **Marking:** Laser Mark (see diagram above)
- **Case:** Grade 5, encapsulated
- **Body Color:** black
- Materials are fungus-inert to meet method 508 of MIL-STD-810H
- \* Meets a TML (Total Mass Loss) requirement of 1.0% maximum when tested in accordance with ASTM E595; this calculation does not include WVR (Water Vapor Recovered)

**PART NUMBER DERIVATION**



**EXAMPLE OF ORDERING BY MILITARY PART NUMBER:**  
MLP24-101L → M27-369-01

**TAPE AND REEL SPECS:**

Pieces/reel maximum:	1000
Pitch between parts:	0.400 in.
Tape width:	2.50 in.
Reel diameter:	12 in.
Class:	2