

MLP8527 SERIES



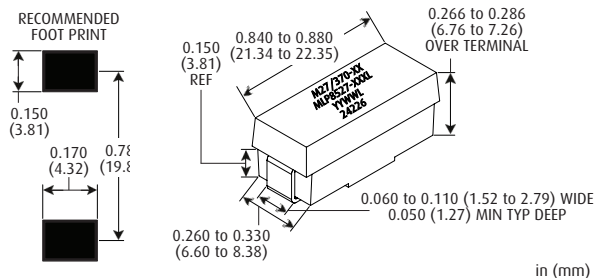
M27 Unshielded High Current T-Level Inductor



Military Specifications:
MIL-PRF-27/370, T-Level Qualified
Outgassing Tested per ASTM E595 (*)

PART NUMBER	MIL DASH NO.	L μ H ¹	DCR Ω MAX	CURRENT RATING A DC	INC I A DC
M27/367 FERRITE CORE					
MLP8527-101L*	01*	1.0	0.009	6.27	6.4
MLP8527-121L*	02*	1.2	0.010	5.95	5.8
MLP8527-151L*	03*	1.5	0.011	5.67	5.2
MLP8527-181L*	04*	1.8	0.012	5.43	4.8
MLP8527-221L*	05*	2.2	0.013	5.22	4.3
MLP8527-271L*	06*	2.7	0.014	5.03	3.9
MLP8527-331L*	07*	3.3	0.016	4.70	3.5
MLP8527-391L*	08*	3.9	0.017	4.56	3.2
MLP8527-471L*	09*	4.7	0.022	4.01	2.9
MLP8527-561L*	10*	5.6	0.024	3.84	2.7
MLP8527-681L*	11*	6.8	0.026	3.69	2.5
MLP8527-821L*	12*	8.2	0.028	3.55	2.2
MLP8527-102L*	13*	10	0.033	3.27	2.0
MLP8527-122L*	14*	12	0.037	3.09	1.8
MLP8527-152L*	15*	15	0.040	2.97	1.6
MLP8527-182L*	16*	18	0.044	2.84	1.5
MLP8527-222L*	17*	22	0.050	2.66	1.4
MLP8527-272L*	18*	27	0.070	2.25	1.2
MLP8527-332L*	19*	33	0.075	2.17	1.1
MLP8527-392L*	20*	39	0.084	2.05	1.0
MLP8527-472L*	21*	47	0.104	1.84	0.93
MLP8527-562L*	22*	56	0.130	1.65	0.85
MLP8527-682L*	23*	68	0.145	1.56	0.77
MLP8527-822L*	24*	82	0.152	1.53	0.71
MLP8527-103L*	25*	100	0.208	1.30	0.64
MLP8527-123L*	26*	120	0.283	1.12	0.58
MLP8527-153L*	27*	150	0.330	1.04	0.52
MLP8527-183L*	28*	180	0.362	0.99	0.48
MLP8527-223L*	29*	220	0.505	0.84	0.43
MLP8527-273L*	30*	270	0.557	0.80	0.39
MLP8527-333L*	31*	330	0.650	0.74	0.35
MLP8527-393L*	32*	390	0.770	0.68	0.32
MLP8527-473L*	33*	470	1.03	0.59	0.29
MLP8527-563L*	34*	560	1.14	0.56	0.27
MLP8527-683L*	35*	680	1.50	0.49	0.25
MLP8527-823L*	36*	820	1.98	0.42	0.22
MLP8527-104L*	37*	1000	2.30	0.39	0.20
MLP8527-124L*	38*	1200	2.55	0.37	0.18
MLP8527-154L*	39*	1500	3.00	0.34	0.16
MLP8527-184L*	40*	1800	4.00	0.30	0.15
MLP8527-224L*	41*	2200	4.40	0.28	0.14
MLP8527-274L*	42*	2700	5.80	0.25	0.12
MLP8527-334L*	43*	3300	6.56	0.23	0.11
MLP8527-394L*	44*	3900	8.63	0.20	0.10
MLP8527-474L*	45*	4700	10.1	0.19	0.09
MLP8527-564L*	46*	5600	11.2	0.18	0.09
MLP8527-684L*	47*	6800	15.0	0.15	0.08
MLP8527-824L*	48*	8200	20.8	0.13	0.07
MLP8527-105L*	49*	10000	23.4	0.12	0.06
MLP8527-125L*	50*	12000	26.0	0.12	0.06
MLP8527-155L*	51*	15000	36.0	0.10	0.05
MLP8527-185L*	52*	18000	40.0	0.09	0.05

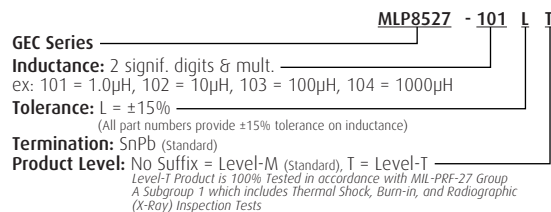
¹ Measured at 1 V ac open circuit with no DC current at 1 kHz



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
 - **Insulation Resistance (IR):** 1,000 M Ω minimum at 500 V dc
 - **Vibration:** MIL-STD-202, Method 204, test condition D
 - **Moisture Resistance:** MIL-STD-202, Method 106
 - **Bond Strength:** Force 2 lbs.
 - **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:
MLP8527-101L → M27-370-01 (Standard Level-M Product Level)
MLP8527-101LT → M27-370-01T (Level-T Product Level)

TAPE AND REEL SPECS:

Pieces/reel maximum:	480
Pitch between parts:	16 mm
Tape width:	44 mm
Reel diameter:	13 in.