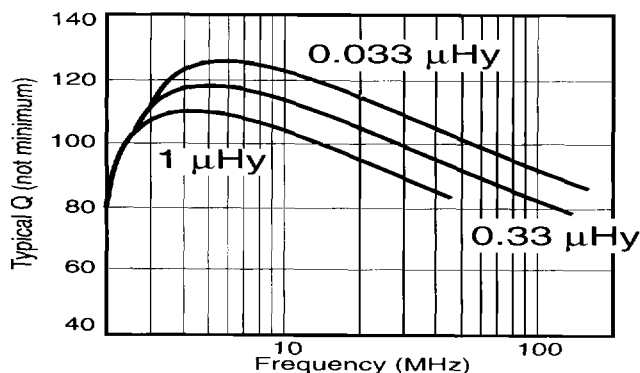
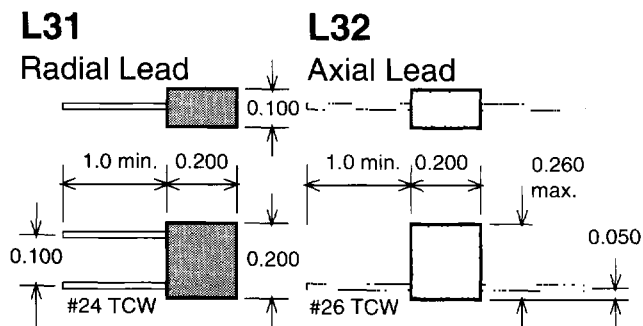




Subminiature Toroidal Inductors Encapsulated MS 21423 Type 0.01 to 1.0 μH L31 and L32



The L31 (radial leads) and L32 (axial leads) series are super-miniaturized, epoxy encapsulated, toroidal, fixed value inductors designed for high density applications and manufactured according to Military standards and Specification MS 21423 for high reliability.

FEATURES:

- Extremely small size.
- Rugged epoxy encapsulated construction.
- Toroidal structure - low externally radiated magnetic fields.
- High reliability.

SPECIFICATIONS:

Inductance: 0.01 to 1.0 μH .

Tolerance: 10% and 20% standard, closer tolerances available.

Power dissipation: 1/5 watt maximum.

Overload current: 1.4 x rated current.

Frequency range: 25 to 150 mHz.

Inductance TC: +150 ppm/ $^{\circ}\text{C}$ nominal, +200 ppm/ $^{\circ}\text{C}$ maximum.

Leads: Tinned copper standard, weldable gold-plated Dumet (suffix "D") or nickel (suffix "N") available.

Terminal strength: 5 pounds.

Operating temperature: -55 to +125 $^{\circ}\text{C}$.

Temperature rise: 35 $^{\circ}\text{C}$ maximum.

Dielectric Withstanding: 700 V rms.

Moisture and shock resistant.

Immersion proof.

Altitude rating: 70,000 feet.

All specifications are subject to change without notice.

MS (REF) Part number	Radial leads Part number	Axial leads Part number	Inductance(μH)	Tolerance(%)	Q(min)	Freq(mHz)	SR Freq(mHz)	DCR (Ω max)	Rated DC(ma)
MS21423-01	L31-010M	L32-010M	0.01				1000		
MS21423-02	L31-012M	L32-012M	0.012			150	1000		
MS21423-03	L31-015M	L32-015M	0.015				1000		
MS21423-04	L31-018M	L32-018M	0.018				1000		
MS21423-05	L31-022M	L32-022M	0.022				900	0.02	3000
MS21423-06	L31-027M	L32-027M	0.027				800		
MS21423-07	L31-033M	L32-033M	0.033				750		
MS21423-08	L31-039M	L32-039M	0.039			100	700		
MS21423-09	L31-047M	L32-047M	0.047				650		
MS21423-10	L31-056M	L32-056M	0.056				600		
MS21423-11	L31-068M	L32-068M	0.068				550	0.03	2500
MS21423-12	L31-082M	L32-082M	0.082				500	0.04	2200
MS21423-13	L31-R10K	L32-R10K	0.10				450	0.04	2200
MS21423-14	L31-R12K	L32-R12K	0.12				400	0.05	2000
MS21423-15	L31-R15K	L32-R15K	0.15				350	0.06	1800
MS21423-16	L31-R18K	L32-R18K	0.18				320	0.07	1600
MS21423-17	L31-R22K	L32-R22K	0.22		80		300	0.08	1500
MS21423-18	L31-R27K	L32-R27K	0.27				280	0.10	1400
MS21423-19	L31-R33K	L32-R33K	0.33			50	260	0.12	1300
MS21423-20	L31-R39K	L32-R39K	0.39				240	0.15	1150
MS21423-21	L31-R47K	L32-R47K	0.47				220	0.20	1000
MS21423-22	L31-R56K	L32-R56K	0.56				200	0.25	900
MS21423-23	L31-R68K	L32-R68K	0.68		70		180	0.30	800
MS21423-24	L31-R82K	L32-R82K	0.82				160	0.35	750
MS21423-25	L31-1R0K	L32-1R0K	1.0				150	0.40	700

Excellence in Magnetics

TeCal

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