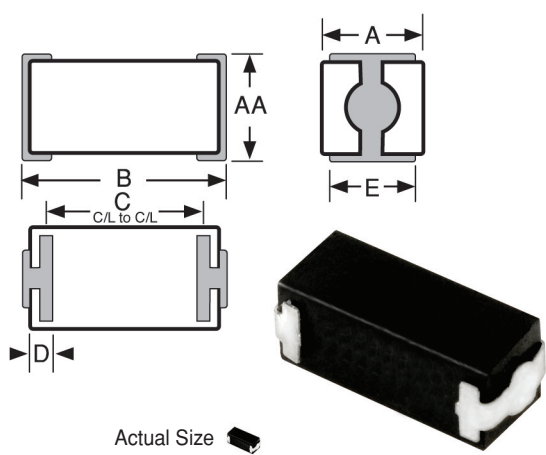


SERIES M0820



Unshielded Surface Mount Inductors



Military QPL Approval

- M83446/20 Phenolic Core
- M83446/21 Iron Core
- M83446/22 Ferrite Core

† **Ordering Note** Military parts must be ordered to the M83446/ part number

Physical Parameters

	Inches	Millimeters
A	0.075 to 0.095	1.91 to 2.41
AA	0.095 to 0.115	2.41 to 2.92
B	0.230 to 0.255	5.84 to 6.48
C	0.130 to 0.160	3.30 to 4.06
D	0.040 to 0.060	1.02 to 1.52
E	0.075 to 0.081	1.91 to 2.06

Dimensions "A" and "C" are over terminations

Weight Max (Grams) 0.19 Phenolic, .22 Iron & Ferrite

Operating Temperature Range

-55°C to +125°C Phenolic, -55°C to +105°C Iron & Ferrite

Current Rating at 90°C Ambient

35°C Rise Phenolic, 15°C Iron & Ferrite

Maximum Power Dissipation at 90°C

.145 mW Phenolic, .062 mW iron & Ferrite

Marking API/SMD; inductance with units and tolerance; date code (YYWWL) followed by an M.

Example: M0820-68K
 API/SMD
 68uH±10%
 1321A M

Packaging Tape & reel (16mm): 7" reel, 500 pieces max., 13" reel, 2200 pieces max.

Made In the U.S.A.

DASH NUMBER*	MIL DASH #	INDUCTANCE (µH) ±10%	TEST FREQUENCY (MHz)	Q MINIMUM	SRF MINIMUM (MHz)	CURRENT RATING MAXIMUM (mA)	DC RESISTANCE MAXIMUM (OHMS)
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M83446/20 – SERIES M0820 PHENOLIC CORE							
- 00K	01F	0.10	25	25.0	640.0	865	0.14
- 02K	02F	0.12	25	25.0	610.0	785	0.17
- 04K	03F	0.15	25	25.0	530.0	725	0.20
- 06K	04F	0.18	25	25.0	510.0	690	0.22
- 08K	05F	0.22	25	25.0	480.0	635	0.26
- 10K	06F	0.27	25	25.0	440.0	510	0.40
- 12K	07F	0.33	25	25.0	410.0	455	0.50
- 14K	08F	0.39	25	25.0	380.0	415	0.60
- 16K	09F	0.47	25	25.0	340.0	405	0.63

M83446/21 – SERIES M0820 IRON CORE							
- 18K	01F	0.56	35	25.0	240.0	500	0.19
- 20K	02F	0.68	35	25.0	210.0	475	0.21
- 22K	03F	0.82	35	25.0	200.0	444	0.24
- 24K	04F	1.00	35	7.9	180.0	418	0.27
- 26K	05F	1.20	25	7.9	160.0	385	0.32
- 28K	06F	1.50	30	7.9	140.0	300	0.53
- 30K	07F	1.80	30	7.9	125.0	283	0.59
- 32K	08F	2.20	30	7.9	120.0	250	0.76
- 34K	09F	2.70	30	7.9	100.0	229	0.90
- 36K	10F	3.30	35	7.9	90.0	187	1.35
- 38K	11F	3.90	35	7.9	85.0	167	1.70
- 40K	12F	4.70	35	7.9	80.0	143	2.30
- 42K	13F	5.60	35	7.9	75.0	123	3.10
- 44K	14F	6.80	35	7.9	64.0	114	3.60
- 46K	15F	8.20	35	7.9	50.0	99	4.80
- 48K	16F	10.0	35	7.9	45.0	91	5.70
- 50K	17F	12.0	25	2.5	29.0	120	3.30
- 52K	18F	15.0	25	2.5	24.0	110	3.80
- 54K	19F	18.0	25	2.5	21.0	106	4.20
- 56K	20F	22.0	25	2.5	18.0	100	4.70
- 58K	21F	27.0	25	2.5	17.0	91	5.70
- 60K	22F	33.0	25	2.5	15.0	87	6.20
- 62K	23F	39.0	25	2.5	13.0	76	8.10
- 64K	24F	47.0	25	2.5	12.0	69	9.80
- 66K	25F	56.0	25	2.5	11.0	62	12.0
- 68K	26F	68.0	25	2.5	10.0	58	13.8
- 70K	27F	82.0	25	2.5	9.0	50	19.0
- 72K	28F	100.0	25	2.5	8.9	47	21.0

M83446/22 – SERIES M0820 FERRITE CORE							
- 74K	01F	120.0	15	0.79	8.5	52	17.0
- 76K	02F	150.0	15	0.79	7.6	49	19.0
- 78K	03F	180.0	15	0.79	7.2	46	21.5
- 80K	04F	220.0	15	0.79	6.8	38	32.0
- 82K	05F	270.0	15	0.79	6.2	35	37.0
- 84K	06F	330.0	15	0.79	5.3	31	47.0
- 86K	07F	390.0	15	0.79	5.0	30	53.0
- 88K	08F	470.0	15	0.79	4.6	28	60.0
- 90K	09F	560.0	15	0.79	4.3	25	71.0
- 92K	10F	680.0	15	0.79	3.8	23	83.0
- 94K	11F	820.0	15	0.79	3.2	22	95.0
- 96K	12F	1000.0	15	0.79	2.4	20	108.0

Parts listed above are QPL/MIL qualified

*Complete part # must include series # PLUS the dash #
 For surface finish information, refer to www.delevanfinishes.com