



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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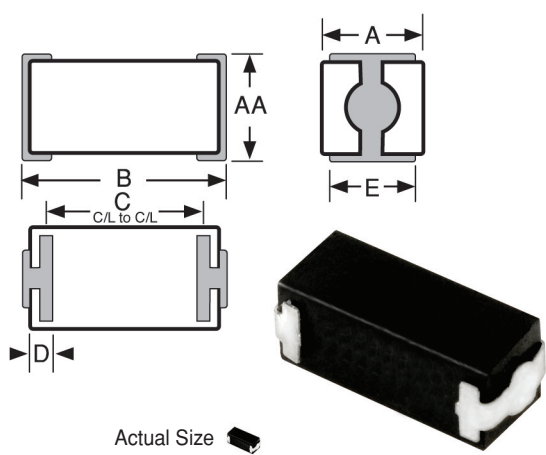
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SERIES M0820



Unshielded Surface Mount Inductors



Actual Size

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)

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