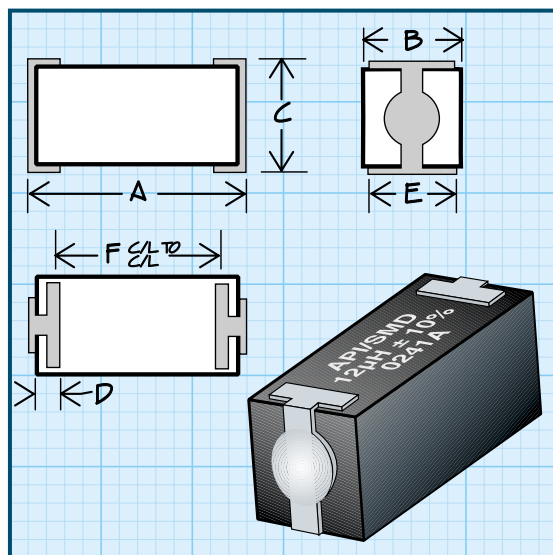


Series M0820



Surface Mount Inductors



Not recommended for new designs See Series 2510 (page 30) for replacement.

Military QPL Approval

M83446/20 Phenolic Core

M83446/21 Iron Core

M83446/22 Ferrite Core

Physical Parameters

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

Dimensions "A" and "C" are over terminals.

Weight Max. (Grams)

Phenolic: 0.19

Iron & Ferrite: 0.22

Operating Temperature Range

Phenolic: -55°C to +125°C

Iron & Ferrite: -55°C to +105°C

Current Rating at 90°C Ambient

Phenolic: 35°C Rise

Iron & Ferrite: 15°C Rise

Maximum Power Dissipation at 90°C Ambient

Phenolic: 0.145 W

Iron and Ferrite Core: 0.062 W

Packaging Tape & reel (12mm): 7" reel, 750 pieces max.; 13" reel, 2700 pieces max.

Made In the U.S.A. Patent Protected

DASH NUMBER*

MIL DASH #

INDUCTANCE
(μ H) $\pm 10\%$

Q MINIMUM

TEST FREQUENCY (MHz)

SRF MINIMUM (MHz)

DC RESISTANCE
MAXIMUM (OHMS)

CURRENT RATING
MAX. (mA)

M83446/20- SERIES M0820 PHENOLIC CORE

-00K	01F	0.10	25	25.0	640.0	0.14	865
-02K	02F	0.12	25	25.0	610.0	0.17	785
-04K	03F	0.15	25	25.0	530.0	0.20	725
-06K	04F	0.18	25	25.0	510.0	0.22	690
-08K	05F	0.22	25	25.0	480.0	0.26	635
-10K	06F	0.27	25	25.0	440.0	0.40	510
-12K	07F	0.33	25	25.0	410.0	0.50	455
-14K	08F	0.39	25	25.0	380.0	0.60	415
-16K	09F	0.47	25	25.0	340.0	0.63	405

M83446/21- SERIES M0820 IRON CORE

-18K	01F	0.56	35	25.0	240.0	0.19	500
-20K	02F	0.68	35	25.0	210.0	0.21	475
-22K	03F	0.82	35	25.0	200.0	0.24	444
-24K	04F	1.0	35	25.0	180.0	0.27	418
-26K	05F	1.2	25	7.9	160.0	0.32	385
-28K	06F	1.5	30	7.9	140.0	0.53	300
-30K	07F	1.8	30	7.9	125.0	0.59	283
-32K	08F	2.2	30	7.9	120.0	0.76	250
-34K	09F	2.7	30	7.9	100.0	0.90	229
-36K	10F	3.3	35	7.9	90.0	1.35	187
-38K	11F	3.9	35	7.9	85.0	1.70	167
-40K	12F	4.7	35	7.9	80.0	2.30	143
-42K	13F	5.6	35	7.9	75.0	3.10	123
-44K	14F	6.8	35	7.9	64.0	3.60	114
-46K	15F	8.2	35	7.9	50.0	4.8	99
-48K	16F	10.0	35	7.9	45.0	5.7	91
-50K	17F	12.0	25	2.5	29.0	3.3	120
-52K	18F	15.0	25	2.5	24.0	3.8	110
-54K	19F	18.0	25	2.5	21.0	4.2	106
-56K	20F	22.0	25	2.5	18.0	4.7	100
-58K	21F	27.0	25	2.5	17.0	5.7	91
-60K	22F	33.0	25	2.5	15.0	6.2	87
-62K	23F	39.0	25	2.5	13.0	8.1	76
-64K	24F	47.0	25	2.5	12.0	9.8	69
-66K	25F	56.0	25	2.5	11.0	12.0	62
-68K	26F	68.0	25	2.5	10.0	13.8	58
-70K	27F	82.0	25	2.5	9.0	19.0	50
-72K	28F	100.0	25	2.5	8.9	21.0	47

M83446/22- SERIES M0820 FERRITE CORE

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

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

*Complete part # must include series # PLUS the dash #

For further surface finish information,
refer to TECHNICAL section of this catalog.

RF INDUCTORS