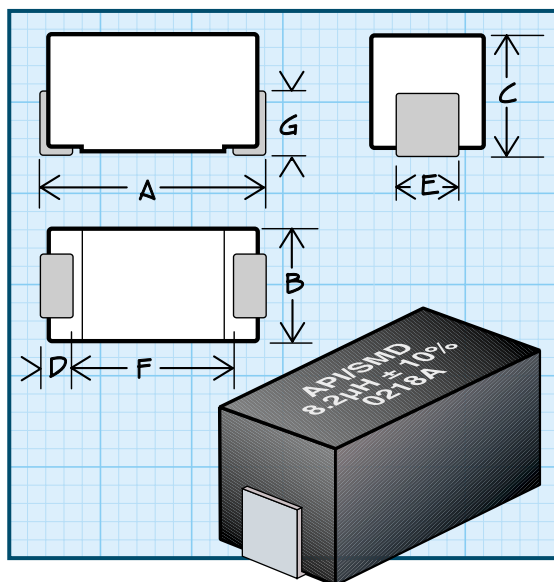


Unshielded Surface Mount Inductors

**Military QPL Approval**

M83446/31 Phenolic Core

M83446/32 Iron Core

M83446/33 Ferrite Core

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

Physical Parameters

	Inches	Millimeters
A	0.300 to 0.325	7.62 to 8.26
B	0.105 to 0.125	2.67 to 3.18
C	0.125 to 0.145	3.18 to 3.68
D	0.020 Min.	0.508 Min
E	0.040 to 0.060	1.02 to 1.52
F	0.190 (Ref. only)	4.83 (Ref. only)
G	0.070 (Ref. only)	1.78 (Ref. only)

Weight Max (Grams) 0.30

Operating Temperature Range

Phenolic: -55°C to +125°C

Iron and Ferrite: -55°C to +105°C

Current Rating at 90°C Ambient

Phenolic: 35°C Rise

Iron and Ferrite: 15°C Rise

Maximum Power Dissipation at 90°C Ambient

Phenolic: 0.210 W

Iron: 0.090 W

Ferrite: 0.073 W

Packaging Tape & reel (16mm): 7" reel, 500 pieces max.; 13" reel, 2200 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)**M83446/31 – SERIES MIL1330 PHENOLIC CORE**

-94K	01F	0.10	40	25.0	680.0	0.08	1380
-96K	02F	0.12	40	25.0	640.0	0.09	1300
-00K	03F	0.15	38	25.0	600.0	0.10	1230
-02K	04F	0.18	35	25.0	550.0	0.12	1120
-04K	05F	0.22	33	25.0	510.0	0.14	1040
-06K	06F	0.27	33	25.0	430.0	0.16	975
-08K	07F	0.33	30	25.0	410.0	0.22	830
-10K	08F	0.39	30	25.0	365.0	0.30	710
-12K	09F	0.47	30	25.0	330.0	0.35	660
-14K	10F	0.56	30	25.0	300.0	0.50	550
-16K	11F	0.68	28	25.0	275.0	0.60	500
-18K	12F	0.82	28	25.0	250.0	0.85	420
-20K	13F	1.00	25	25.0	230.0	1.00	390

M83446/32 – SERIES MIL1330 IRON CORE

-22K	01F	1.20	25	7.9	150.0	0.18	620
-24K	02F	1.50	28	7.9	140.0	0.22	560
-26K	03F	1.80	30	7.9	125.0	0.30	480
-28K	04F	2.20	30	7.9	115.0	0.40	415
-30K	05F	2.70	37	7.9	100.0	0.55	355
-32K	06F	3.30	45	7.9	90.0	0.85	285
-34K	07F	3.90	45	7.9	80.0	1.00	263
-36K	08F	4.70	45	7.9	75.0	1.20	239
-38K	09F	5.60	50	7.9	65.0	1.80	195
-40K	10F	6.80	50	7.9	60.0	2.00	185
-42K	11F	8.20	55	7.9	55.0	2.70	160
-44K	12F	10.00	55	7.9	50.0	3.30	144
-46K	13F	12.0	45	2.5	40.0	2.70	160
-48K	14F	15.0	45	2.5	35.0	2.80	157
-50K	15F	18.0	45	2.5	30.0	3.10	149
-52K	16F	22.0	45	2.5	25.0	3.30	144
-54K	17F	27.0	45	2.5	20.0	3.50	140

M83446/33 – SERIES MIL1330 FERRITE CORE

-56K	01F	33.0	35	2.5	24.0	3.40	130
-58K	02F	39.0	35	2.5	22.0	3.60	125
-60K	03F	47.0	35	2.5	20.0	4.50	110
-62K	04F	56.0	35	2.5	18.0	5.70	100
-64K	05F	68.0	35	2.5	15.0	6.70	92
-66K	06F	82.0	35	2.5	14.0	7.30	88
-68K	07F	100.0	35	2.5	13.0	8.00	84
-70K	08F	120.0	30	0.79	12.0	13.00	66
-72K	09F	150.0	30	0.79	11.0	15.00	61
-74K	10F	180.0	30	0.79	10.0	17.00	57
-76K	11F	220.0	30	0.79	9.0	21.00	52
-78K	12F	270.0	30	0.79	8.0	25.00	47
-80K	13F	330.0	30	0.79	7.0	28.00	45
-82K	14F	390.0	30	0.79	6.5	35.00	40
-84K	15F	470.0	30	0.79	6.0	42.00	36
-86K	16F	560.0	30	0.79	5.0	46.00	35
-88K	17F	680.0	30	0.79	4.2	60.00	30
-90K	18F	820.0	30	0.79	3.8	65.00	29
-92K	19F	1000.0	30	0.79	3.4	72.00	28

Parts listed above are QPL/MIL qualified

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

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