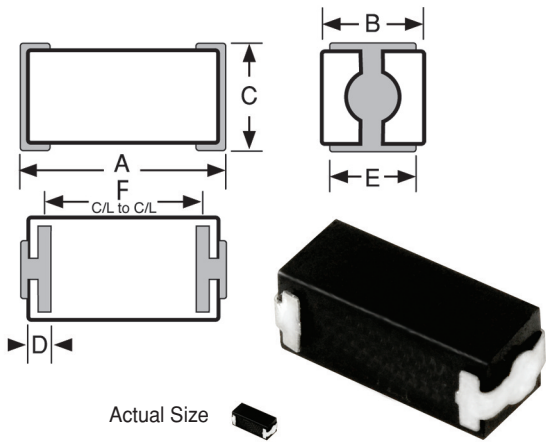


# SERIES M1331



## Shielded Surface Mount Inductors



Actual Size

### Military QPL Approval

- M83446/26 Iron Core/Iron Sleeve
- M83446/26 Iron Core/Ferrite Sleeve
- M83446/27 Ferrite Core/Ferrite Sleeve

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

### Physical Parameters

	Inches	Millimeters
A	0.300 to 0.320	7.62 to 8.13
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 to 0.040	0.51 to 1.02
E	0.075 to 0.095	1.91 to 2.41
F	0.230 to 0.260	5.84 to 6.60

Dimensions "A" and "C" are over terminations

**Weight Max** (Grams) 0.30

**Operating Temperature Range** -55°C to +105°C

**Current Rating at 90°C Ambient** 15°C Rise

**Maximum Power Dissipation at 90°C** 0.585 W

**Incremental Current** Current level which causes a maximum of 5% decrease in inductance.

**Coupling** 3% Max.

**\*\*Note** Self Resonant Frequency (SRF) values for -101K to -331K are calculated and for reference only.

**Marking** Delevan; dash number followed by an S; date code (YYWWL) followed by an M.

Example: M1331-683K  
 DELEVAN  
 683S  
 1321A M

DASH NUMBER\*  
 MIL DASH #  
 INDUCTANCE (μH) ±10%  
 TEST FREQUENCY (MHz)  
 Q MINIMUM  
 SRF MINIMUM (MHz)  
 CURRENT RATING MAXIMUM (mA)\*\*  
 MAXIMUM (OHMS)  
 DC RESISTANCE  
 INCREMENTAL CURRENT (mA)

M83446/26 – SERIES M1331 IRON CORE - IRON SLEEVE								
-101K	01F	0.10	45	25.0	490.0**	670	0.10	670
-121K	02F	0.12	45	25.0	430.0**	635	0.11	635
-151K	03F	0.15	45	25.0	415.0**	610	0.12	610
-181K	04F	0.18	45	25.0	375.0**	585	0.13	585
-221K	05F	0.22	45	25.0	330.0**	545	0.15	545
-271K	06F	0.27	45	25.0	300.0**	530	0.16	530
-331K	07F	0.33	44	25.0	260.0**	495	0.18	495
-391K	08F	0.39	42	25.0	230.0	485	0.19	485
-471K	09F	0.47	41	25.0	220.0	460	0.21	460
-561K	10F	0.56	41	25.0	210.0	440	0.23	440
-681K	11F	0.68	39	25.0	180.0	430	0.24	430
-821K	12F	0.82	38	25.0	165.0	405	0.27	405
-102K	13F	1.00	37	25.0	150.0	385	0.30	385
-122K	14F	1.20	40	7.9	130.0	247	0.73	247
-152K	15F	1.50	41	7.9	115.0	228	0.86	228
-182K	16F	1.80	43	7.9	105.0	217	0.95	217
-222K	17F	2.20	45	7.9	95.0	202	1.10	202
-272K	18F	2.70	48	7.9	90.0	193	1.20	193
-332K	19F	3.30	49	7.9	80.0	185	1.30	185
-392K	20F	3.90	50	7.9	75.0	173	1.50	173
-472K	21F	4.70	50	7.9	70.0	136	2.40	136
-562K	22F	5.60	50	7.9	60.0	124	2.90	124
-682K	23F	6.80	50	7.9	55.0	118	3.20	118
-822K	24F	8.20	50	7.9	53.0	111	3.60	111
-103K	25F	10.0	50	7.9	50.0	106	4.00	106
M83446/26 – SERIES M1331 IRON CORE - FERRITE SLEEVE								
-123K	26F	12.0	36	2.5	35.0	122	3.00	122
-153K	27F	15.0	38	2.5	30.0	115	3.40	115
-183K	28F	18.0	40	2.5	26.0	108	3.80	108
-223K	29F	22.0	40	2.5	24.0	96	4.90	96
-273K	30F	27.0	40	2.5	21.0	88	5.80	88
-333K	31F	33.0	41	2.5	20.0	83	6.50	83
-393K	32F	39.0	42	2.5	19.0	75	7.90	75
-473K	33F	47.0	44	2.5	16.0	69	9.30	69
-563K	34F	56.0	44	2.5	15.0	64	11.0	64
-683K	35F	68.0	45	2.5	13.0	61	12.0	61
-823K	36F	82.0	45	2.5	11.0	59	13.0	59
-104K	37F	100.0	40	2.5	10.5	51	16.8	51
M83446/27 – SERIES M1331 FERRITE CORE - FERRITE SLEEVE								
-124K	01F	120.0	31	0.79	13.0	88	5.80	27
-154K	02F	150.0	33	0.79	12.0	75	7.90	24
-184K	03F	180.0	33	0.79	11.0	69	9.40	22
-224K	04F	220.0	35	0.79	10.0	64	11.0	20
-274K	05F	270.0	35	0.79	9.0	61	12.0	18
-334K	06F	330.0	35	0.79	8.0	53	16.0	16
-394K	07F	390.0	35	0.79	7.8	46	21.0	14
-474K	08F	470.0	35	0.79	7.5	43	24.0	13
-564K	09F	560.0	35	0.79	7.0	40	28.0	12

Parts listed above are QPL/MIL qualified

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

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

Made In the U.S.A.

# Mouser Electronics

Authorized Distributor

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