

SHIELDED INDUCTORS

S3031 SERIES

After winding, this inductor is coated with polyurethane, encapsulated within a ferrite sleeve, then encased again within an epoxy mold, minimizing the effects of mutual inductance interference. This makes for an outstanding RF Inductor.

FEATURES

Sturdy construction.
Outstanding performance.
Same size and electrical parameters as MS75087, 75088, 75089, 90537.
Meets all requirements of MIL-C-15305.

ELECTRICAL CHARACTERISTICS

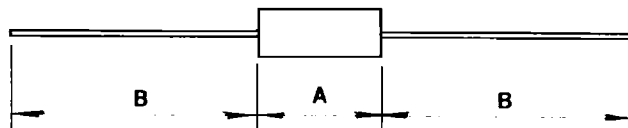
Inductance Range-	.10 uH to 1000 uH
Tolerance-	10% over entire range.
Shielding-	Less than 3% coupling with 2 inductors side by side within 1 millimeter.
Rated current-	Based on the value obtained when initial inductance value change within plus or minus 10%.
Test procedures-	L and Q are measured with HP4342A Q meter at specified frequency. SRF is measured with Grid Dip meter. DCR is measured with Digital Milliohm meter.

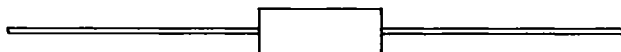
PHYSICAL CHARACTERISTICS

Operating temperature-	Minus 55 degrees C to plus 125 degrees C.
Dielectric Strength-	1000 volts RMS.
Terminal strength-	5 lbs pull test per MIL-STD-202E, method 211A.
Solvent Resistivity-	Conforms to MIL-STD-202E, method 215.
Marking (on part)-	5 band color code per MIL-C-15305.
Marking (on reel)-	Manufactures name, Part number, Quantity.
Packaging-	Bulk 500 pieces per bag. Reel 2,500 pieces per reel.

DIMENSIONS

Type	Body Diameter	Body Length (A)	Lead Length (B)	Lead Diameter
S3031	.157" +- .01"	.395" +- .02"	1.05" Nominal	22 AWG



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Part #	L (uH)	Q min.	Test Freq. MHZ	SRF MHZ min.	DCR Ohms max.	DCC (mA) max.
S3031-R10K	0.10 +- 10%	50	25.2	250	0.025	2900
S3031-R12K	0.12 +- 10%	51	25.2	250	0.034	2800
S3031-R15K	0.15 +- 10%	51	25.2	250	0.037	2750
S3031-R18K	0.18 +- 10%	50	25.2	250	0.05	2200
S3031-R22K	0.22 +- 10%	49	25.2	250	0.067	1700
S3031-R27K	0.27 +- 10%	47	25.2	250	0.11	1500
S3031-R33K	0.33 +- 10%	46	25.2	250	0.113	1300
S3031-R39K	0.39 +- 10%	44	25.2	250	0.18	1100
S3031-R47K	0.47 +- 10%	44	25.2	235	0.25	1000
S3031-R56K	0.56 +- 10%	43	25.2	210	0.33	900
S3031-R68K	0.68 +- 10%	42	25.2	190	0.45	750
S3031-R82K	0.82 +- 10%	40	25.2	180	0.59	600
S3031-1R0K	1.10 +- 10%	47	25.2	140	0.07	1900
S3031-1R2K	1.20 +- 10%	46	7.96	130	0.093	1600
S3031-1R5K	1.50 +- 10%	45	7.96	115	0.12	1300
S3031-1R8K	1.80 +- 10%	43	7.96	105	0.14	1200
S3031-2R2K	2.20 +- 10%	45	7.96	100	0.19	1100
S3031-2R7K	2.70 +- 10%	46	7.96	92	0.28	950
S3031-3R3K	3.30 +- 10%	44	7.96	85	0.35	800
S3031-3R9K	3.90 +- 10%	44	7.96	75	0.4	750
S3031-4R7K	4.70 +- 10%	44	7.96	70	0.55	650
S3031-5R6K	5.60 +- 10%	47	7.96	65	0.72	550
S3031-6R8K	6.80 +- 10%	50	7.96	55	1.02	500
S3031-8R2K	8.20 +- 10%	50	7.96	50	1.32	475
S3031-100K	10.0 +- 10%	49	7.96	46	1.62	450
S3031-120K	12.0 +- 10%	55	2.52	44	2	400
S3031-150K	15.0 +- 10%	44	2.52	49	0.8	620
S3031-180K	18.0 +- 10%	45	2.52	45	0.89	610
S3031-220K	22.0 +- 10%	46	2.52	40	0.96	600
S3031-270K	27.0 +- 10%	49	2.52	38	1.19	500
S3031-330K	33.0 +- 10%	45	2.52	34	1.37	490
S3031-390K	39.0 +- 10%	53	2.52	29	1.93	410
S3031-470K	47.0 +- 10%	52	2.52	27	2.11	400
S3031-560K	56.0 +- 10%	45	2.52	25	2.23	380
S3031-680K	68.0 +- 10%	51	2.52	21	2.7	370
S3031-820K	82.0 +- 10%	45	2.52	10.5	2.44	360
S3031-101K	100 +- 10%	45	2.52	10	3.12	325
S3031-121K	120 +- 10%	57	0.796	9.7	3.6	290
S3031-151K	150 +- 10%	56	0.796	8.5	4.1	275
S3031-181K	180 +- 10%	60	0.796	8	4.4	260
S3031-221K	220 +- 10%	58	0.796	7.5	5	250
S3031-271K	270 +- 10%	60	0.796	7	5.8	240
S3031-331K	330 +- 10%	54	0.796	6.5	6.4	225
S3031-391K	390 +- 10%	67	0.796	6.2	7.4	200
S3031-471K	470 +- 10%	60	0.796	5.7	9.5	180
S3031-561K	560 +- 10%	60	0.796	4.7	10.5	174
S3031-681K	680 +- 10%	60	0.796	4.5	11.8	168
S3031-821K	820 +- 10%	57	0.796	4.2	13	152
S3031-102K	1000 +- 10%	65	0.796	3.8	17.5	135
S3031-122K	1200 +- 10%	45	0.252	1.5	22.1	115
S3031-152K	1500 +- 10%	49	0.252	1.2	26.5	110
S3031-182K	1800 +- 10%	47	0.252	1	29.9	105
S3031-222K	2200 +- 10%	50	0.252	0.97	33.8	99
S3031-272K	2700 +- 10%	47	0.252	0.92	47.3	83
S3031-332K	3300 +- 10%	43	0.252	0.84	53	80
S3031-392K	3900 +- 10%	43	0.252	0.8	73.8	67
S3031-472K	4700 +- 10%	44	0.252	0.74	81.6	63
S3031-562K	5600 +- 10%	45	0.252	0.73	98.9	56
S3031-682K	6800 +- 10%	43	0.252	0.66	111	54
S3031-822K	8200 +- 10%	42	0.252	0.54	119	52
S3031-103K	10000 +- 10%	39	0.252	0.47	137	49