SMRF3013 *Unshielded RF Inductors*

PART NUMBER	INDUCTANCE µH	Q MIN	TEST FREQ. MHz	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING* DC mA	CORE MATERIAL
SMRF3013-100K	.10 ± 10%	40	25	680	.08	1590	Phenolic Core
SMRF3013-110J	.11 ± 5%	40	25	660	.085	1542	Phenolic Core
SMRF3013-120K	.12 ± 10%	40	25	640	.09	1499	Phenolic Core
SMRF3013-130J	.13 ± 5%	38	25	625	.095	1459	Phenolic Core
SMRF3013-150K	.15 ± 10%	38	25	600	.10	1422	Phenolic Core
SMRF3013-160J	.16 ± 5%	35	25	580	.11	1356	Phenolic Core
SMRF3013-180K	.18 ± 10%	35	25	550	.12	1298	Phenolic Core
SMRF3013-200J	.20 ± 5%	33	25	530	.13	1247	Phenolic Core
SMRF3013-220K	.22 ± 10%	33	25	510	.14	1202	Phenolic Core
SMRF3013-240J	.24 ± 5%	33	25	475	.15	1161	Phenolic Core
SMRF3013-270K	.27 ± 10%	33	25	430	.16	1124	Phenolic Core
SMRF3013-300J	.30 ± 5%	30	25	420	.19	1032	Phenolic Core
SMRF3013-330K	.33 ± 10%	30	25	410	.22	959	Phenolic Core
SMRF3013-360J	.36 ± 5%	30	25	385	.26	882	Phenolic Core
SMRF3013-390K	.39 ± 10%	30	25	365	.30	821	Phenolic Core
SMRF3013-430J	.43 ± 5%	30	25	345	.325	789	Phenolic Core
SMRF3013-470K	.47 ± 10%	30	25	330	.35	760	Phenolic Core
SMRF3013-510J	.51 ± 5%	30	25	310	.42	649	Phenolic Core
SMRF3013-560K	.56 ± 10%	30	25	300	.50	636	Phenolic Core
SMRF3013-620J	.62 ± 5%	28	25	290	.55	606	Phenolic Core
SMRF3013-680K	.68 ± 10%	28	25	275	.60	580	Phenolic Core
SMRF3013-750J	.75 ± 5%	28	25	265	.71	534	Phenolic Core
SMRF3013-820K	.82 ± 10%	28	25	250	.85	488	Phenolic Core
SMRF3013-910J	.91 ± 5%	25	25	240	.925	468	Phenolic Core
SMRF3013-101K	1.0 ± 10%	25	25	230	1.00	450	Phenolic Core
SMRF3013-111J	1.1 ± 5%	25	7.9	165	.17	1100	Powdered Iron Core
SMRF3013-121K	1.2 ± 10%	25	7.9	150	.18	1060	Powdered Iron Core
SMRF3013-131J	1.3 ± 5%	28	7.9	145	.20	1005	Powdered Iron Core
SMRF3013-151K	1.5 ± 10%	28	7.9	140	.22	959	Powdered Iron Core
SMRF3013-161J	1.6 ± 5%	30	7.9	135	.25	899	Powdered Iron Core
SMRF3013-181K	1.8 ± 10%	30	7.9	125	.30	821	Powdered Iron Core
SMRF3013-201J	2.0 ± 5%	30	7.9	120	.35	760	Powdered Iron Core
SMRF3013-221K	2.2 ± 10%	30	7.9	115	.40	711	Powdered Iron Core
SMRF3013-241J	2.4 ± 5%	37	7.9	109	.46	663	Powdered Iron Core
SMRF3013-271K	2.7 ± 10%	37	7.9	100	.55	606	Powdered Iron Core
SMRF3013-301J	3.0 ± 5%	45	7.9	95	.70	537	Powdered Iron Core
SMRF3013-331K	3.3 ± 10%	45	7.9	90	.85	488	Powdered Iron Core
SMRF3013-361J	3.6 ± 5%	45	7.9	85	.925	468	Powdered Iron Core
SMRF3013-391K	3.9 ± 10%	45	7.9	80	1.00	450	Powdered Iron Core
SMRF3013-431J	4.3 ± 5%	45	7.9	77	1.10	429	Powdered Iron Core
SMRF3013-471K	4.7 ± 10%	45	7.9	75	1.20	410	Powdered Iron Core
SMRF3013-511J	5.1 ± 5%	50	7.9	69	1.47	371	Powdered Iron Core
SMRF3013-561K	5.6 ± 10%	50	7.9	65	1.80	335	Powdered Iron Core
SMRF3013-621J	6.2 ± 5%	50	7.9	62	1.90	326	Powdered Iron Core
SMRF3013-681K	6.8 ± 10%	50	7.9	60	2.00	318	Powdered Iron Core
SMRF3013-751J	7.5 ± 5%	50	7.9	57	2.35	293	Powdered Iron Core
SMRF3013-821K	8.2 ± 10%	55	7.9	55	2.70	274	Powdered Iron Core
SMRF3013-911J	9.1 ± 5%	55	7.9	52	3.00	260	Powdered Iron Core
SMRF3013-102K	10.0 ±10%	55	7.9	50	3.70	234	Powdered Iron Core
SMRF3013-112J	11.0 ± 5%	45	2.5	45	2.60	279	Powdered Iron Core
SMRF3013-122K	12.0 ± 10%	45	2.5	40	2.70	274	Powdered Iron Core
SMRF3013-132J	13.0 ± 5%	45	2.5	38	2.80	269	Powdered Iron Core
SMRF3013-152K	15.0 ± 10%	45	2.5	35	2.80	269	Powdered Iron Core
SMRF3013-162J	16.0 ± 5%	45	2.5	33	2.90	264	Powdered Iron Core
SMRF3013-182K	18.0 ± 10%	50	2.5	30	3.10	255	Powdered Iron Core
SMRF3013-202J	20.0 ± 5%	50	2.5	27.5	3.20	251	Powdered Iron Core
SMRF3013-222K	22.0 ± 10%	50	2.5	25	3.30	248	Powdered Iron Core
SMRF3013-242J	24.0 ± 5%	50	2.5	23	3.40	244	Powdered Iron Core
SMRF3013-272K	27.0 ± 10%	50	2.5	20	3.50	240	Powdered Iron Core

Optional tolerances available, consult factory

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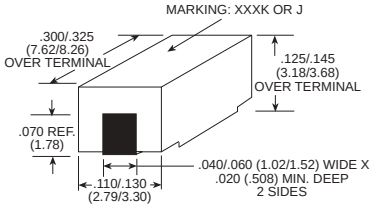

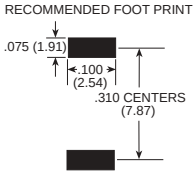

in. (mm)

NOTES:

- Operating temperature -55°C to +125°C

*Rated current is based on a 35°C temperature rise at an ambient temperature of 90°C.

TAPE AND REEL SPECS:

Pcs./Reel maximum:	2200
Pitch between parts:	8 mm
Tape width:	16 mm
Reel diameter inches:	13

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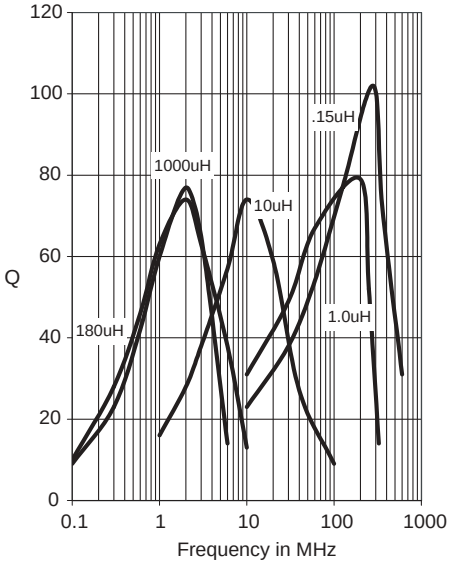
SMRF3013 - continued

PART NUMBER	INDUCTANCE µH	Q MIN	TEST FREQ. MHz	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING* DC mA	CORE MATERIAL
SMRF3013-302J	30.0 ± 5%	45	2.5	22	3.30	248	Ferrite Core
SMRF3013-332K	33.0 ± 10%	45	2.5	24	3.40	244	Ferrite Core
SMRF3013-362J	36.0 ± 5%	45	2.5	23	3.50	240	Ferrite Core
SMRF3013-392K	39.0 ± 10%	45	2.5	22	3.60	237	Ferrite Core
SMRF3013-432J	43.0 ± 5%	45	2.5	21	4.10	222	Ferrite Core
SMRF3013-472K	47.0 ± 10%	45	2.5	20	4.50	212	Ferrite Core
SMRF3013-512J	51.0 ± 5%	45	2.5	19	5.00	201	Ferrite Core
SMRF3013-562K	56.0 ± 10%	45	2.5	18	5.70	188	Ferrite Core
SMRF3013-622J	62.0 ± 5%	50	2.5	16.5	6.20	181	Ferrite Core
SMRF3013-682K	68.0 ± 10%	50	2.5	15	6.70	174	Ferrite Core
SMRF3013-752J	75.0 ± 5%	50	2.5	14.5	7.00	170	Ferrite Core
SMRF3013-822K	82.0 ± 10%	50	2.5	14	7.30	166	Ferrite Core
SMRF3013-912J	91.0 ± 5%	50	2.5	13.5	7.70	162	Ferrite Core
SMRF3013-103K	100.0 ± 10%	50	2.5	13	8.00	159	Ferrite Core
SMRF3013-113J	110.0 ± 5%	30	.79	12.5	11.0	136	Ferrite Core
SMRF3013-123K	120.0 ± 10%	30	.79	12	13	125	Ferrite Core
SMRF3013-133J	130.0 ± 5%	30	.79	11.5	14	120	Ferrite Core
SMRF3013-153K	150.0 ± 10%	30	.79	11	15	116	Ferrite Core
SMRF3013-163J	160.0 ± 5%	30	.79	10.5	16	112	Ferrite Core
SMRF3013-183K	180.0 ± 10%	30	.79	10	17	109	Ferrite Core
SMRF3013-203J	200.0 ± 5%	30	.79	9.5	19	103	Ferrite Core
SMRF3013-223K	220.0 ± 10%	30	.79	9.0	21	98	Ferrite Core
SMRF3013-243J	240.0 ± 5%	30	.79	8.5	23	93	Ferrite Core
SMRF3013-273K	270.0 ± 10%	30	.79	8.0	25	90	Ferrite Core
SMRF3013-303J	300.0 ± 5%	30	.79	7.5	27	87	Ferrite Core
SMRF3013-333K	330.0 ± 10%	30	.79	7.0	28	85	Ferrite Core
SMRF3013-363J	360.0 ± 5%	30	.79	6.75	32	79	Ferrite Core
SMRF3013-393K	390.0 ± 10%	30	.79	6.50	35	76	Ferrite Core
SMRF3013-433J	430.0 ± 5%	30	.79	6.25	39	72	Ferrite Core
SMRF3013-473K	470.0 ± 10%	30	.79	6.00	42	69	Ferrite Core
SMRF3013-513J	510.0 ± 5%	30	.79	5.50	44	68	Ferrite Core
SMRF3013-563K	560.0 ± 10%	30	.79	5.00	46	66	Ferrite Core
SMRF3013-623J	620.0 ± 5%	30	.79	4.60	53	62	Ferrite Core
SMRF3013-683K	680.0 ± 10%	30	.79	4.00	60	58	Ferrite Core
SMRF3013-753J	750.0 ± 5%	30	.79	4.00	63	57	Ferrite Core
SMRF3013-823K	820.0 ± 10%	30	.79	3.80	65	56	Ferrite Core
SMRF3013-913J	910.0 ± 5%	30	.79	3.60	69	54	Ferrite Core
SMRF3013-104K	1000.0 ± 10%	30	.79	3.40	72	53	Ferrite Core

Optional tolerances available, consult factory

Q VS. FREQUENCY
SMRF3013 SERIES



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