

203 series

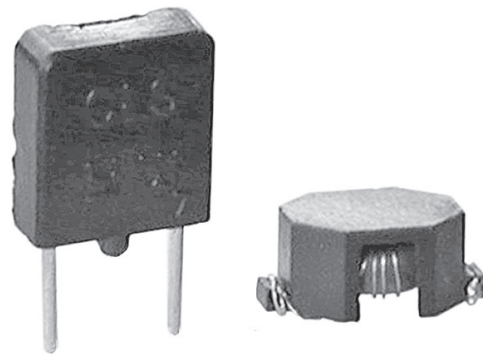
rf inductors

PRODUCT DESCRIPTION

West Coast Magnetics' high Q RF inductors are designed for resonant circuit applications requiring exceptionally high Q's and tight tolerances on inductance specifications. These RF Inductors are mounted in a surface mount package which assures mechanical stability and excellent lead coplanarity. This SMD package is suitable for automatic pick and place equipment.

FEATURES - BENEFITS

High Q values at RF frequencies – Standard Inductance tolerance +/-5% – Tighter tolerances available on request – Surface Mount – Tape and Reel – Custom designs available



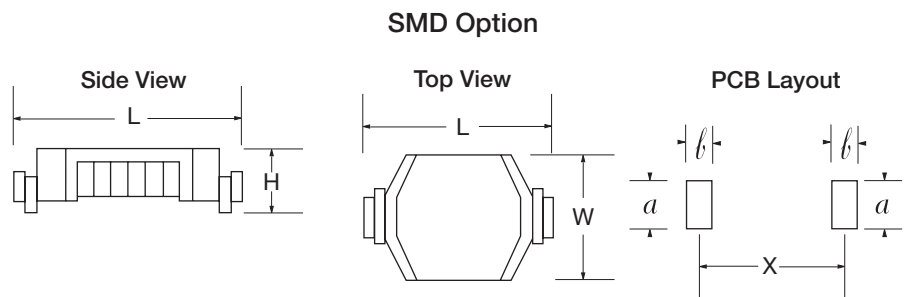
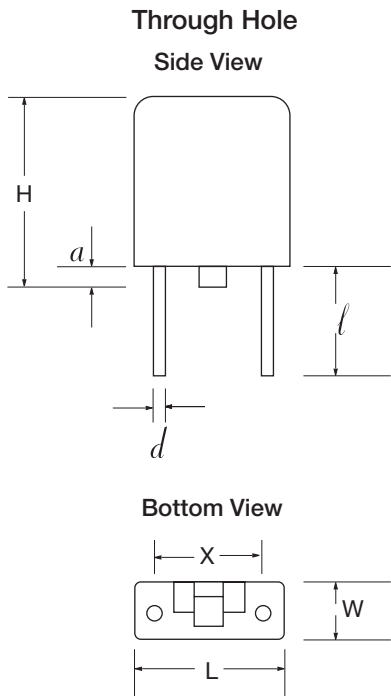
Product Code	Inductance ($\mu H \pm 5\%$)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	DCR nom (milliohms)	Self Resonant Frequency
203-01	.039	60	50	70	70	80	100	37	>700
203-02	.047	60	50	70	70	80	100	40	665
203-03	.056	60	50	70	70	80	100	47	555
203-04	.068	80	30	90	50	90	70	27	500
203-05	.082	80	30	95	50	90	70	30	480
203-06	.10	85	30	95	50	90	70	33	450
203-07	.12	85	30	95	50	90	70	37	410
203-08	.15	75	20	85	30	95	50	44	335
203-09	.18	80	20	90	30	95	50	47	320
203-10	.20	85	20	95	30	100	50	51	290
203-11	.27	100	15	110	20	105	30	37	250
203-12	.33	100	15	110	20	105	30	40	230
203-13	.39	100	10	115	20	110	30	54	205
203-14	.47	100	10	115	20	110	30	63	180
203-15	.56	100	10	115	20	110	30	83	170

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Product Code	Inductance ($\mu\text{H} \pm 5\%$)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	DCR nom (milliohms)	Self Resonant Frequency
203-16	.68	105	10	110	20	95	30	83	155
203-17	.82	105	10	110	20	95	30	120	140
203-18	1.0	110	10	110	20	90	30	130	120
203-19	1.2	110	10	110	20	90	30	150	110
203-20	1.5	110	7	120	10	110	15	200	100
203-21	1.8	110	7	120	10	110	15	230	90
203-22	2.2	115	7	120	10	110	15	250	75
203-23	2.7	115	7	115	10	110	15	440	62
203-24	3.3	100	4	115	7	115	10	480	55
203-25	3.9	100	4	115	7	115	10	530	46
203-26	4.7	100	4	110	7	110	10	570	43
203-27	5.6	100	4	110	7	110	10	980	36
203-28	6.8	100	4	105	7	105	10	1080	32
203-29	8.2	100	4	105	7	100	10	1210	28
203-30	10.0	100	4	95	7	95	10	1310	26

Dimensions: $\frac{\text{Inches}}{\text{mm}}$



OPTION	L	W	H	X	a	b	d	l
SMD	$\frac{.330}{8.4}$	$\frac{.225}{5.7}$	$\frac{.160}{4.1}$	$\frac{.286}{7.3}$	$\frac{.125}{3.2}$	$\frac{.060}{1.5}$	NA	NA
Through Hole	$\frac{.275}{7.0}$	$\frac{.104}{2.6}$	$\frac{.345}{8.8}$	$\frac{.197}{5.0}$	$\frac{.040}{1.0}$	NA	$\frac{.025}{0.6}$	$\frac{.197}{5.0}$

Note: All materials of construction minimum Class B 130 degrees C rated.