

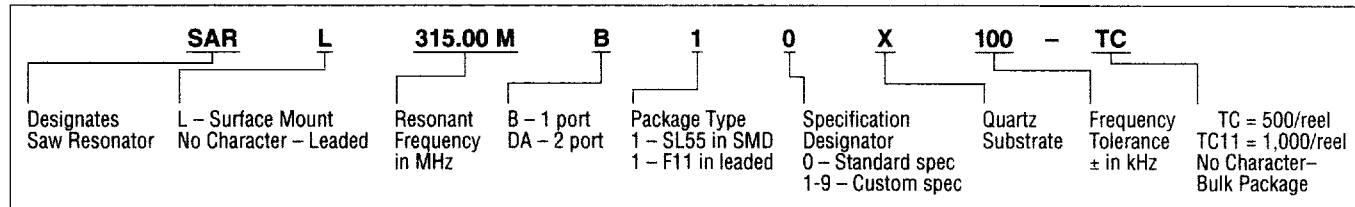
### FEATURES

- Surface mount or leaded packages
- Excellent temperature characteristics
- High stability oscillation
- High frequency fundamental mode oscillation
- Free from mechanical or electrical adjustment
- Several frequency tolerances to help lower cost

### APPLICATIONS

- Remote keyless entry
- Remote garage door opener
- Remote startup transmitter

### PART NUMBERING SYSTEM



### SPECIFICATIONS

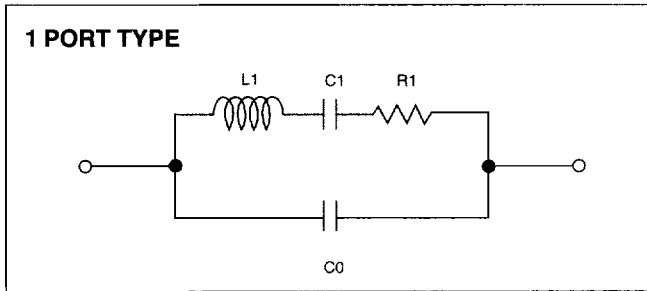
#### 1 PORT TYPE

Part Number	Nominal Osc. Frequency (MHz)	Resonant Frequency (MHz)	Resonant Loss (dB)	Parallel Capacitance at 1MHz (pF)	Package Style
SARL303.83MB10X250-TC	303.88	303.830 ± 0.250	2.2 max.	2.3 ± 1.0	SL55
SARL304.25MB10X250-TC	304.30	304.250 ± 0.250	2.2 max.	2.3 ± 1.0	SL55
SARL308.00MB10X250-TC	308.05	308.000 ± 0.250	2.2 max.	2.3 ± 1.0	SL55
SARL314.95MB10X250-TC	315.00	314.950 ± 0.250	2.2 max.	2.3 ± 1.0	SL55
SARL418.00MB10X250-TC	418.50	418.00 ± 0.250	2.5 max.	2.3 ± 1.0	SL55
SARL433.87MB10X250-TC	433.92	433.870 ± 0.250	2.5 max.	2.3 ± 1.0	SL55
SAR304.25MB10X250	304.30	304.250 ± 0.250	2.2 max.	3.5 ± 1.0	F11
SAR314.95MB10X250	315.00	314.950 ± 0.250	2.2 max.	3.5 ± 1.0	F11
SAR423.17MB10X250	423.22	423.170 ± 0.250	2.5 max.	3.0 ± 1.0	F11
SAR433.37MB10X250	433.42	433.370 ± 0.250	2.5 max.	3.0 ± 1.0	F11
SAR433.87MB10X250	433.92	433.870 ± 0.250	2.5 max.	3.0 ± 1.0	F11
SAR434.37MB10X250	434.42	434.370 ± 0.250	2.5 max.	3.0 ± 1.0	F11
SAR444.57MB10X250	444.62	444.570 ± 0.250	2.5 max.	3.0 ± 1.0	F11

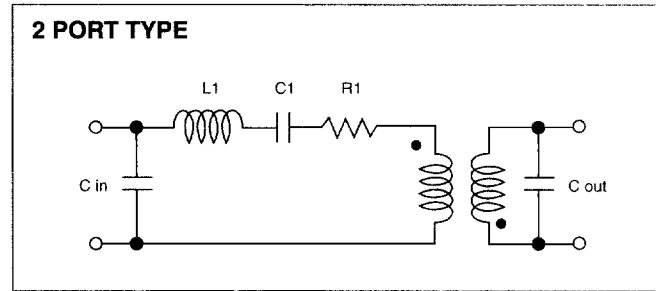
#### 2 PORT TYPE

Part Number	Nominal Osc. Frequency (MHz)	Center Frequency (MHz)	Insertion Loss (dB)	Spurious Response (dB)	Input/Output Capacitance (dB)	Package Style
SARL418.00MDA10X250	418.00	418.000 ± 0.250	10 max.	8 min.	1.5 ± 0.5	SL55
SARL423.22MDA10X250	423.22	423.220 ± 0.250	10 max.	8 min.	1.5 ± 0.5	SL55
SARL433.92MDA10X250	433.92	433.920 ± 0.250	10 max.	8 min.	1.5 ± 0.5	SL55
SAR315.00MDA10X250	315.00	315.000 ± 0.250	10 max.	10 min.	1.65 ± 0.5	F11
SAR423.22MDA10X250	423.22	423.220 ± 0.250	8 max.	8 min.	1.65 ± 0.5	F11
SAR433.42MDA10X250	433.42	433.420 ± 0.250	8 max.	8 min.	1.65 ± 0.5	F11
SAR433.92MDA10X250	433.92	433.920 ± 0.250	8 max.	8 min.	1.65 ± 0.5	F11
SAR434.42MDA10X250	434.42	434.420 ± 0.250	8 max.	8 min.	1.65 ± 0.5	F11

### EQUIVALENT CIRCUIT (TYPICAL VALUE)



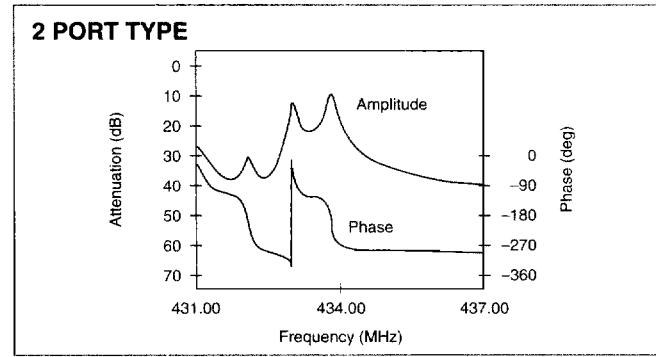
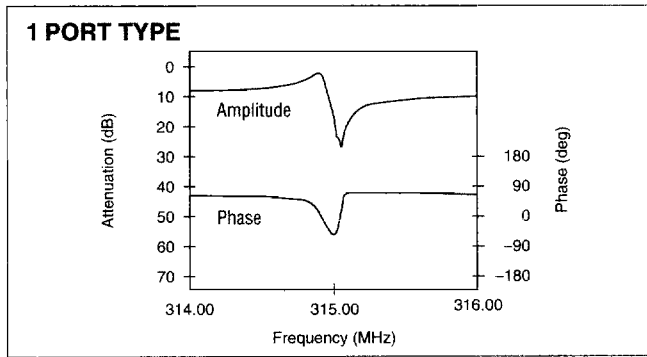
Part Number	L1(mH)	C1(pF)	R1(Ω)	C0(pF)
SARL314.95MB10X250	0.1495	0.001708	21.9	2.44
SAR314.95MB10X250	0.1155	0.002213	16.6	3.19
SAR433.87MB10X250	0.0622	0.002164	20.4	3.09



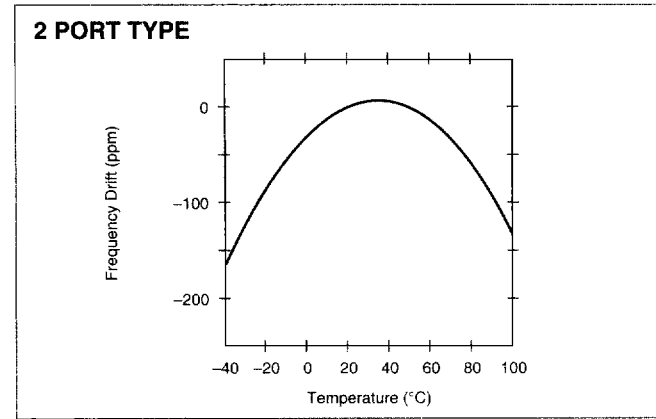
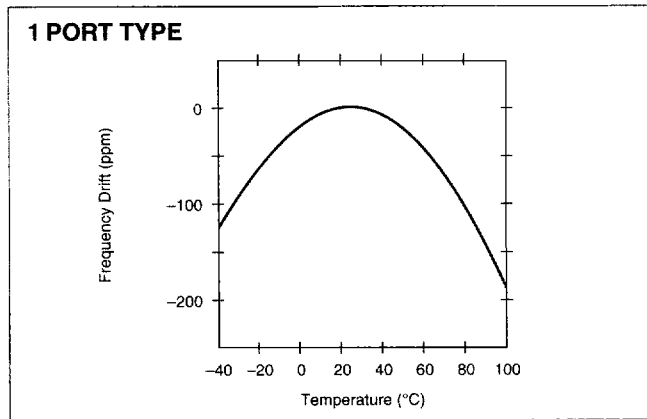
Part Number	L1(mH)	C1(pF)	R1(Ω)	C in(pF)	C out(pF)
SAR315.00MDA10X250	0.8616	2.964	96.6	1.77	1.76
SAR433.92MDA10X250	0.5613	2.397	113.1	1.60	1.57

Note: Contact Murata for the values of other part numbers.

### TYPICAL FREQUENCY CHARACTERISTICS



### TYPICAL TEMPERATURE CHARACTERISTICS



### EXAMPLE OF OSCILLATION CIRCUITS

