

SAW Resonators Surface Acoustic Wave

SAW Resonators (TSR) Can Replace LC Elements and Quartz Crystals

► Preview

Token SAW Resonator employs surface acoustic wave, and is able to be applied to high frequency circuit where conventional crystal, ceramic resonators are not available, as SAW Resonator oscillates stably with its fundamental mode over frequency range from 200 MHz to around 1 GHz.

The SAW resonator uses arrays of metal strips, with pitch $\lambda/2$, as reflectors of the waves. These arrays can give strong SAW reflections, and two arrays can be used to form a SAW cavity with high Q. Such resonators are often used for high-stability oscillators.

TSR can be applied to many types of high frequency devices including RF remote controls, CATV FSK demodulators and CATV 2nd local oscillators. TSR resonator is ideal for applications such as automotive keyless entry, tire pressure monitoring, gate and door openers, personal and home security, automated meter readers, wireless point of sale terminals, identification tags, bar code readers, and computer peripherals.



Token offers 2 types SAW Resonator in terms of 1-port type and 2-port type.

1-Port Type:

- One-port, typically one-pole, SAW Resonators are used in oscillator applications.
- Most of the application circuit is Colpitts or similar type that can be made with low cost.
- 1-port resonator is basically a 2 terminal device and its application is similar to that of quartz bulk wave resonator or ceramic resonator.
- Also, it is also applicable to VCO (Voltage Controlled Oscillator) application.

2-Port Type:

- 2-port SAW Resonator is a kind of very narrow, low loss band-pass filter.
- Oscillation circuit is mostly like a RF amplifier with feedback loop.
- There are many varieties of two-port (multi-pole) resonator structures in production.

The TSR Resonator series has high stability, good temperature characteristics provided by quartz crystal substrate and is developed with SAW technology accumulated for SAW filters through Token's experience. In addition, TSR Resonator can be customized designs and other frequency requirements available on request.

▶ Saw - Automotive Electronics & Remote Control Typical Specification

| Part Number | Center Freq. (MHz) | IL(dB) | Package | |
|----------------|-----------------------|--------|----------|----------|
| | | | SMD Type | DIP Type |
| TSR224D50-D2 | 224.5 | 1.2 | | F-11 |
| TSR224D70-D1 | 224.7 | 1.4 | | TO-39 |
| TSR265D00-D1 | 265 | 1.8 | | TO-39 |
| TSR288D00-D1 | 288 | 1.5 | | TO-39 |
| TSR293D125-S5 | 293.125 | 1.6 | QCC4A | |
| TSR295D00-D1 | 295 | 1.5 | | TO-39 |
| TSR300D00A-D1 | 300 | 1.3 | | TO-39 |
| TSR300D00B-S4 | 300 | 1.3 | QCC8C | |
| TSR300D00C-S4 | 300 | 1.5 | QCC8C | |
| TSR300D3625-S4 | 300.3625 | 1.3 | QCC8C | |
| TSR303D75-D1 | 303.75 | 1.5 | | TO-39 |
| TSR303D825A-S5 | 303.825 | 1.2 | QCC4A | |
| TSR303D825B-D1 | 303.825 | 1.5 | | TO-39 |
| TSR303D825C-D2 | 303.825 | 1.3 | | F-11 |
| TSR303D825D-S4 | 303.825 | 1.4 | QCC8C | |
| TSR303D875A-D1 | 303.875 | 1.5 | | TO-39 |
| TSR303D875B-D2 | 303.875 | 1.3 | | F-11 |
| TSR303D875C-S5 | 303.875 | 1.6 | QCC4A | |
| TSR303D875D-S4 | 303.875 | 1.4 | QCC8C | |
| TSR303D948A-S5 | 303.948 | 1.5 | QCC4A | |
| TSR303D948B-S4 | 303.948 | 1.3 | QCC8C | |
| TSR304D00-D1 | 304 | 1.2 | | TO-39 |
| TSR304D30A-D1 | 304.3 | 1.4 | | TO-39 |
| TSR304D30B-S11 | 304.3 | 1.5 | F11SMD | |
| TSR304D30C-S5 | 304.3 | 1.5 | QCC4A | |
| TSR305D675-D1 | 305.675 | 1.8 | | TO-39 |
| TSR306D00-D2 | 306 | 1.2 | | F-11 |
| TSR308D50-D1 | 308.5 | 1.2 | | TO-39 |
| TSR309D00-D1 | 309 | 1.3 | | TO-39 |
| TSR310D00A-D1 | 310 | 1.4 | | TO-39 |
| TSR310D00B-S5 | 310 | 1.1 | QCC4A | |
| TSR310D00C-S4 | 310 | 1.3 | QCC8C | |
| TSR311D00A-D1 | 311 | 1.5 | | TO-39 |
| TSR311D00B-S4 | 311 | 1.5 | QCC8C | |
| TSR311D063A-S5 | 311.063 | 1.3 | QCC4A | |
| TSR311D063B-S4 | 311.063 | 1.3 | QCC8C | |
| TSR312D00A-D1 | 312 | 1.3 | | TO-39 |
| TSR312D00B-S5 | 312 | 1.3 | QCC4A | |
| TSR312D00C-S4 | 312 | 1.2 | QCC8C | |
| TSR314D50A-D1 | 314.5 | 1.5 | | TO-39 |
| TSR314D50B-D2 | 314.5 | 1.5 | | F-11 |

| Part Number | Center Freq. (MHz) | IL(dB) | Package | |
|----------------|-----------------------|--------|----------|----------|
| | | | SMD Type | DIP Type |
| TSR314D50C-S5 | 314.5 | 1.3 | QCC4A | |
| TSR314D50D-S4 | 314.5 | 1.2 | QCC8C | |
| TSR314D50E-S11 | 314.5 | 1.6 | F11SMD | |
| TSR315D00A-D1 | 315 | 1.5 | | TO-39 |
| TSR315D00B-D2 | 315 | 1.5 | | F-11 |
| TSR315D00C-D3 | 315 | 1.0 | | D-11 |
| TSR315D00D-S5 | 315 | 1.3 | QCC4A | |
| TSR315D00E-S4 | 315 | 1.4 | QCC8C | |
| TSR315D00F-S9 | 315 | 1.5 | DCC6C | |
| TSR315D00G-S7 | 315 | 1.3 | DCC6 | |
| TSR315D00H-S11 | 315 | 1.6 | F11SMD | |
| TSR315D50A-D1 | 315.5 | 1.2 | | TO-39 |
| TSR315D50B-D2 | 315.5 | 1.3 | | F-11 |
| TSR315D50C-D3 | 315.5 | 1.3 | | D-11 |
| TSR315D50D-S5 | 315.5 | 1.5 | QCC4A | |
| TSR315D50E-S5 | 315.5 | 1.6 | QCC4A | |
| TSR315D50F-S4 | 315.5 | 1.5 | QCC8C | |
| TSR315D50G-S7 | 315.5 | 1.5 | DCC6 | |
| TSR315D50H-S9 | 315.5 | 1.3 | DCC6C | |
| TSR316D025-D1 | 316.025 | 1.2 | | TO-39 |
| TSR316D65-D1 | 316.65 | 1.3 | | TO-39 |
| TSR316D80A-D1 | 316.8 | 1.3 | | TO-39 |
| TSR316D80B-D2 | 316.8 | 1.3 | | F-11 |
| TSR316D80C-S5 | 316.8 | 1.2 | QCC4A | |
| TSR317D50-S5 | 317.5 | 1.2 | SQCC4A | |
| TSR318D00A-D1 | 318 | 1.0 | | TO-39 |
| TSR318D00B-D2 | 318 | 1.0 | | F-11 |
| TSR318D00C-S5 | 318 | 1.2 | QCC4A | |
| TSR318D00D-S4 | 318 | 1.5 | QCC8C | |
| TSR319D00-S4 | 319 | 1.0 | QCC8C | |
| TSR319D50A-S5 | 319.5 | 1.3 | QCC4A | |
| TSR319D50B-S4 | 319.5 | 1.3 | QCC8C | |
| TSR320D00-D1 | 320 | 1.5 | | TO-39 |
| TSR324D00-S4 | 324 | 1.5 | QCC8C | |
| TSR325D00A-D1 | 325 | 1.6 | | TO-39 |
| TSR325D00B-D2 | 325 | 1.6 | | F-11 |
| TSR330D00A-D1 | 330 | 1.2 | | TO-39 |
| TSR330D00B-D2 | 330 | 1.0 | | F-11 |
| TSR333D00A-D1 | 333 | 1.3 | | TO-39 |
| TSR333D00B-D2 | 333 | 1.3 | | F-11 |
| TSR334D50-D2 | 334.5 | 1.8 | | F-11 |

| Part Number | Center Freq. (MHz) | IL(dB) | Package | |
|----------------|-----------------------|--------|----------|----------|
| | | | SMD Type | DIP Type |
| TSR336D00-D3 | 336 | 1.5 | | D-11 |
| TSR340D00A-D1 | 340 | 1.0 | | TO-39 |
| TSR340D00B-S4 | 340 | 1.3 | QCC8C | |
| TSR345D00A-D1 | 345 | 1.4 | | TO-39 |
| TSR345D00B-S5 | 345 | 1.5 | QCC4A | |
| TSR345D00C-S4 | 345 | 1.5 | QCC8C | |
| TSR350D00A-D1 | 350 | 1.3 | | TO-39 |
| TSR350D00B-D2 | 350 | 1.0 | | F-11 |
| TSR350D00C-S4 | 350 | 1.5 | QCC8C | |
| TSR360D00A-D1 | 360 | 1.5 | | TO-39 |
| TSR360D00B-D2 | 360 | 1.2 | | F-11 |
| TSR360D00C-S4 | 360 | 1.3 | QCC8C | |
| TSR360D00D-S5 | 360 | 1.2 | QCC4A | |
| TSR370D00-S4 | 370 | 1.2 | QCC8C | |
| TSR372D00-S5 | 372 | 1.2 | QCC4A | |
| TSR372D50A-D1 | 372.5 | 1.0 | | TO-39 |
| TSR372D50B-S5 | 372.5 | 1.2 | QCC4A | |
| TSR372D50C-S4 | 372.5 | 1.4 | QCC8C | |
| TSR380D00-D2 | 380 | 1.2 | | F-11 |
| TSR384D05-D2 | 384.05 | 1.3 | | F-11 |
| TSR388D95-D2 | 388.95 | 1.2 | | F-11 |
| TSR390D00A-D1 | 390 | 1.2 | | TO-39 |
| TSR390D00B-D2 | 390 | 1.4 | | F-11 |
| TSR390D00C-S4 | 390 | 1.2 | QCC8C | |
| TSR390D00D-S4 | 390 | 1.3 | QCC8C | |
| TSR392D85-S4 | 392.85 | 1.3 | QCC8C | |
| TSR395D00A-D1 | 395 | 1.5 | | TO-39 |
| TSR395D00B-D2 | 395 | 1.0 | | F-11 |
| TSR395D00C-S5 | 395 | 1.5 | QCC4A | |
| TSR395D50A-D1 | 395.5 | 1.2 | | TO-39 |
| TSR395D50B-D2 | 395.5 | 1.3 | | F-11 |
| TSR396D00-D1 | 396 | 1.3 | | TO-39 |
| TSR403D55A-D1 | 403.55 | 1.2 | | TO-39 |
| TSR403D55B-S5 | 403.55 | 1.3 | QCC4A | |
| TSR403D55C-S4 | 403.55 | 1.3 | QCC8C | |
| TSR403D966A-S5 | 403.966 | 1.3 | QCC4A | |
| TSR403D966B-S4 | 403.966 | 1.5 | QCC8C | |
| TSR407D30A-D1 | 407.3 | 1.3 | | TO-39 |
| TSR407D30B-S4 | 407.3 | 1.3 | QCC8C | |
| TSR417D50A-D1 | 417.5 | 1.4 | | TO-39 |
| TSR417D50B-S4 | 417.5 | 1.5 | QCC8C | |
| TSR418D00A-D1 | 418 | 1.5 | | TO-39 |

| Part Number | Center Freq. (MHz) | IL(dB) | Package | |
|---------------|-----------------------|--------|----------|----------|
| | | | SMD Type | DIP Type |
| TSR418D00B-D2 | 418 | 1.6 | | F-11 |
| TSR418D00A-S5 | 418 | 1.2 | QCC4A | |
| TSR418D00B-S4 | 418 | 1.6 | QCC8C | |
| TSR418D00C-S6 | 418 | 1.7 | QCC8B | |
| TSR418D00D-S9 | 418 | 1.8 | DCC6C | |
| TSR419D95-D2 | 419.95 | 1.4 | | F-11 |
| TSR423D22A-D1 | 423.22 | 1.3 | | TO-39 |
| TSR423D22B-D2 | 423.22 | 1.5 | | F-11 |
| TSR423D22C-S5 | 423.22 | 1.6 | QCC4A | |
| TSR423D22D-S4 | 423.22 | 1.6 | QCC8C | |
| TSR426D00-S4 | 426 | 1.5 | QCC8C | |
| TSR426D55-S4 | 426.55 | 1.5 | QCC8C | |
| TSR430D50A-D1 | 430.5 | 2.0 | | TO-39 |
| TSR430D50B-D2 | 430.5 | 2.2 | | F-11 |
| TSR430D50C-D3 | 430.5 | 1.6 | | D-11 |
| TSR430D65-D1 | 430.65 | 2.0 | | TO-39 |
| TSR432D00-D2 | 432 | 1.2 | | F-11 |
| TSR432D92A-D1 | 432.92 | 1.3 | | TO-39 |
| TSR432D92B-S4 | 432.92 | 1.3 | QCC8C | |
| TSR433D00-D1 | 433 | 1.0 | | TO-39 |
| TSR433D385-S4 | 433.385 | 1.3 | QCC8C | |
| TSR433D42A-D1 | 433.42 | 1.8 | | TO-39 |
| TSR433D42B-S5 | 433.42 | 1.3 | QCC4A | |
| TSR433D42C-S4 | 433.42 | 1.5 | QCC8C | |
| TSR433D42D-S9 | 433.42 | 1.6 | DCC6C | |
| TSR433D62-S9 | 433.62 | 1.6 | DCC6C | |
| TSR433D85-D2 | 433.85 | 1.6 | | F-11 |
| TSR433D92A-D1 | 433.92 | 1.8 | | TO-39 |
| TSR433D92B-D1 | 433.92 | 1.5 | | TO-39 |
| TSR433D92C-D1 | 433.92 | 2.6 | | TO-39 |
| TSR433D92D-D1 | 433.92 | 1.3 | | TO-39 |
| TSR433D92E-D1 | 433.92 | 1.1 | | TO-39 |
| TSR433D92F-D2 | 433.92 | 1.3 | | F-11 |
| TSR433D92G-D2 | 433.92 | 1.5 | | F-11 |
| TSR433D92H-D3 | 433.92 | 1.0 | | D-11 |
| TSR433D92I-S5 | 433.92 | 1.5 | QCC4A | |
| TSR433D92J-S4 | 433.92 | 1.2 | QCC8C | |
| TSR433D92K-S4 | 433.92 | 1.6 | QCC8C | |
| TSR433D92L-S4 | 433.92 | 2.0 | QCC8C | |
| TSR433D92M-S4 | 433.92 | 2.0 | QCC8C | |
| TSR433D92N-S4 | 433.92 | 1.8 | QCC8C | |
| TSR433D92O-S9 | 433.92 | 1.6 | DCC6C | |

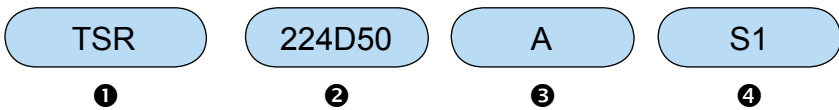
| Part Number | Center Freq. (MHz) | IL(dB) | Package | |
|----------------|-----------------------|--------|----------|----------|
| | | | SMD Type | DIP Type |
| TSR433D92P-S7 | 433.92 | 1.5 | DCC6 | |
| TSR433D92Q-S6 | 433.92 | 1.5 | QCC8B | |
| TSR433D92R-S11 | 433.92 | 1.8 | F11SMD | |
| TSR433D97-D1 | 433.97 | 1.1 | | TO-39 |
| TSR434D40-D1 | 434.4 | 1.3 | | TO-39 |
| TSR434D42A-D1 | 434.42 | 1.3 | | TO-39 |
| TSR434D42B-S5 | 434.42 | 1.8 | QCC4A | |
| TSR434D42C-S4 | 434.42 | 2.0 | QCC8C | |
| TSR435D00-D1 | 435 | 1.2 | | TO-39 |
| TSR435D72A-S5 | 435.72 | 1.3 | QCC4A | |
| TSR435D72B-S4 | 435.72 | 2.8 | QCC8C | |
| TSR435D80-D1 | 435.8 | 1.3 | | TO-39 |
| TSR440D80-D1 | 440.8 | 2.5 | | TO-39 |
| TSR441D20A-D1 | 441.2 | 2.7 | | TO-39 |
| TSR441D20B-D2 | 441.2 | 2.8 | | F-11 |
| TSR447D699A-S5 | 447.699 | 1.3 | QCC4A | |
| TSR447D699B-S4 | 447.699 | 1.0 | QCC8C | |
| TSR447D725A-D1 | 447.725 | 1.5 | | TO-39 |
| TSR447D725B-S5 | 447.725 | 1.6 | QCC4A | |
| TSR479D50A-D1 | 479.5 | 1.3 | | TO-39 |
| TSR479D50B-D2 | 479.5 | 1.5 | | F-11 |
| TSR499D50-S4 | 499.5 | 1.2 | QCC8C | |
| TSR500D00-D2 | 500 | 1.1 | | F-11 |
| TSR567D00-D1 | 567 | 5.0 | | TO-39 |
| TSR585D00-D2 | 585 | 1.8 | | F-11 |
| TSR622D08A-D1 | 622.08 | 1.5 | | TO-39 |
| TSR622D08B-S7 | 622.08 | 1.5 | DCC6 | |
| TSR643D75-S4 | 643.75 | 1.5 | QCC8C | |
| TSR680D00-D2 | 680 | 0.9 | | F-11 |
| TSR755D00-S7 | 755 | 1.2 | DCC6 | |
| TSR801D125-S7 | 801.125 | 1.2 | DCC6 | |
| TSR809D00A-D1 | 809 | 1.2 | | TO-39 |
| TSR809D00B-S4 | 809 | 1.3 | QCC8C | |
| TSR820D00-S9 | 820 | 1.4 | DCC6C | |
| TSR854D00-S7 | 854 | 1.2 | DCC6 | |
| TSR857D30-D1 | 857.3 | 1.0 | | TO-39 |
| TSR857D65A-D1 | 857.65 | 2.8 | | TO-39 |
| TSR857D65B-S5 | 857.65 | 1.2 | QCC4A | |
| TSR858D00-S7 | 858 | 1.4 | DCC6 | |
| TSR863D00-D1 | 863 | 1.0 | | TO-39 |
| TSR864D00-D1 | 864 | 1.0 | | sTO-39 |
| TSR868D00A-D1 | 868 | 1.2 | | TO-39 |

| Part Number | Center Freq. (MHz) | IL(dB) | Package | |
|---------------|-----------------------|--------|----------|----------|
| | | | SMD Type | DIP Type |
| TSR868D00B-S4 | 868 | 1.5 | QCC8C | |
| TSR868D00C-S9 | 868 | 1.3 | DCC6C | |
| TSR868D30A-D1 | 868.3 | 1.2 | | TO-39 |
| TSR868D30B-S4 | 868.3 | 1.5 | QCC8C | |
| TSR868D30C-S9 | 868.3 | 1.5 | DCC6C | |
| TSR868D35A-D1 | 868.35 | 1.2 | | TO-39 |
| TSR868D35B-D2 | 868.35 | 1.3 | | F-11 |
| TSR868D35C-D3 | 868.35 | 1.2 | | D-11 |
| TSR868D35D-S4 | 868.35 | 1.6 | QCC8C | |
| TSR868D35E-S6 | 868.35 | 1.0 | QCC8B | |
| TSR868D35F-S9 | 868.35 | 1.5 | DCC6C | |
| TSR868D35G-S5 | 868.35 | 1.7 | QCC4A | |
| TSR868D75-S4 | 868.75 | 1.8 | QCC8C | |
| TSR868D95A-D1 | 868.95 | 1.3 | | TO-39 |
| TSR868D95B-S4 | 868.95 | 1.8 | QCC8C | |
| TSR868D95C-S9 | 868.95 | 1.6 | DCC6C | |
| TSR902D30-S4 | 902.3 | 1.3 | QCC8C | |
| TSR902D50-S4 | 902.5 | 1.3 | QCC8C | |
| TSR904D30A-D1 | 904.3 | 2.8 | | TO-39 |
| TSR904D30B-S5 | 904.3 | 3.4 | QCC4A | |
| TSR905D80-S4 | 905.8 | 1.5 | QCC8C | |
| TSR910D00-S4 | 910 | 1.2 | QCC8C | |
| TSR912D00A-D1 | 912 | 1.3 | | TO-39 |
| TSR912D00B-S4 | 912 | 1.5 | QCC8C | |
| TSR912D00C-S7 | 912 | 1.0 | DCC6 | |
| TSR914D50A-S4 | 914.5 | 1.8 | QCC8C | |
| TSR914D50B-S5 | 914.5 | 2.0 | QCC4A | |
| TSR915D00A-D1 | 915 | 1.6 | | TO-39 |
| TSR915D00B-S5 | 915 | 1.6 | QCC4A | |
| TSR915D00C-S4 | 915 | 1.8 | QCC8C | |
| TSR915D00D-S9 | 915 | 1.3 | DCC6C | |
| TSR916D50A-D1 | 916.5 | 1.2 | | TO-39 |
| TSR916D50B-S5 | 916.5 | 1.5 | QCC4A | |
| TSR916D50C-S4 | 916.5 | 1.5 | QCC8C | |
| TSR925D00-S4 | 925 | 2.4 | QCC8C | |
| TSR927D00-S7 | 927 | 1.3 | DCC6 | |
| TSR927D20-S7 | 927.2 | 1.3 | DCC6 | |
| TSR930D50-D1 | 930.5 | 1.3 | | TO-39 |
| TSR980D00A-D1 | 980 | 1.3 | | TO-39 |
| TSR980D00B-S5 | 980 | 1.5 | QCC4A | |
| TSR980D00C-S4 | 980 | 1.5 | QCC8C | |

▶ Saw - Automotive Electronics & Remote Control Typical Specification

| Part Number | Center Freq. (MHz) | IL(dB) | Package | |
|----------------|-----------------------|--------|----------|----------|
| | | | SMD Type | DIP Type |
| TSR217D25-D1 | 217.25 | 4.5 | | TO-39 |
| TSR284D00-D1 | 284 | 5.0 | | TO-39 |
| TSR310D00-D1 | 310 | 5.5 | | TO-39 |
| TSR315D00A-D1 | 315 | 5.0 | | TO-39 |
| TSR315D00B-D2 | 315 | 5.0 | | F-11 |
| TSR315D00C-S4 | 315 | 5.0 | QCC8C | |
| TSR380D00A-D1 | 380 | 6.0 | | TO-39 |
| TSR380D00B-S11 | 380 | 5.5 | F11SMD | |
| TSR384D05-D1 | 384.05 | 6.0 | | TO-39 |
| TSR392D00-D1 | 392 | 5.5 | | TO-39 |
| TSR403D55A-D1 | 403.55 | 6.0 | | TO-39 |
| TSR403D55B-S4 | 403.55 | 5.0 | QCC8C | |
| TSR418D00A-D1 | 418 | 6.0 | | TO-39 |
| TSR418D00B-S4 | 418 | 6.0 | QCC8C | |
| TSR423D22-D1 | 423.22 | 6.0 | | TO-39 |
| TSR433D42-D1 | 433.42 | 6.0 | | TO-39 |
| TSR433D92A-D1 | 433.92 | 6.0 | | TO-39 |
| TSR433D92B-D2 | 433.92 | 6.0 | | F-11 |
| TSR433D92C-S4 | 433.92 | 6.0 | QCC8C | |
| TSR433D92D-S5 | 433.92 | 6.0 | QCC4A | |
| TSR433D92E-S7 | 433.92 | 6.5 | DCC6 | |
| TSR780D00-S4 | 780 | 6.5 | QCC8C | |
| TSR824D25-D1 | 824.25 | 6.5 | | TO-39 |
| TSR865D00-D1 | 865 | 6.0 | | TO-39 |
| TSR868D30-D1 | 868.3 | 6.0 | | TO-39 |
| TSR868D30-S4 | 868.3 | 6.0 | QCC8C | |
| TSR868D35-S4 | 868.35 | 6.5 | QCC8C | |
| TSR873D00-S4 | 873 | 7.0 | QCC8C | |
| TSR906D00-D1 | 906 | 6.5 | | TO-39 |
| TSR915D00-S4 | 915 | 6.5 | QCC8C | |
| TSR916D50-S4 | 916.5 | 6.5 | QCC8C | |
| TSR934D00-D1 | 934 | 7.0 | | TO-39 |
| TSR1090D00-D1 | 1090 | 6.5 | | TO-39 |

▶ How to Order



❶ SAW Resonators Part Type

❷ Center Freq.(MHz)

| Code | Center Freq. |
|--------|--------------|
| 224D50 | 224.5 MHz |
| 306D00 | 306 MHz |
| 384D05 | 384.05 MHz |

❸ Series No.: None, A, B, C, D

❹ Package: S1, S2, D1, D2, D3

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