

FREQUENCY CONTROL PRODUCTS



SAW PRODUCTS

THE SPECIALIST FOR FREQUENCY CONTROL PRODUCTS

SAW Filters

	Type	Version	Frequency Range	LxWxH in mm	RoHS	Page
	R21	RF	900 ~ 2400 MHz	2.0 x 1.6 x 0.98		6
	R22	RF	130 ~ 2400 MHz	2.5 x 2.0 x 1.0		6
	Q30	RF / IF / Dual	130 ~ 2400 MHz	3.0 x 3.0 x 1.4		7
	Q38	RF / IF / Dual	130 ~ 2400 MHz	3.8 x 3.8 x 1.6		8
	Q50	RF / IF / Dual	130 ~ 2400 MHz	5.0 x 5.0 x 1.7		9
	R75	RF / IF	130 ~ 2400 MHz	7.0 x 5.0 x 1.82		10
	R94	IF	30 ~ 600 MHz	9.1 x 4.8 x 1.5		11
	R13	IF	30 ~ 550 MHz	13.3 x 6.5 x 1.8		11
	R97	RF / IF	30 ~ 2400 MHz	9.1 x 7.1 x 1.95		12
	R19	IF	30 ~ 550 MHz	19.0 x 6.5 x 1.8		13
	SIM	IF	30 ~ 550 MHz	16.3 x 6.3 x 4.0		13
	T3P	RF / IF	30 ~ 2400 MHz	9.35 x 9.35 x 3.6		14
	T4P	IF / Dual	30 ~ 1960 MHz	9.35 x 9.35 x 3.6		15
	F11	RF / IF	30 ~ 2400 MHz	11.1 x 4.6 x 3.2		16
	SIP	IF	30 ~ 550 MHz	13.7 x 4.8 x 2.1		17
	DIM	IF	30 ~ 550 MHz	20.1 x 12.6 x 5.3		17

SAW Resonators

	Q30	1-port	300 ~ 1400 MHz	3.0 x 3.0 x 1.4		18
	R97	1-port	400 ~ 1100 MHz	9.1 x 7.1 x 1.95		18
	Q38	1-port / 2-port	300 ~ 1400 MHz	3.8 x 3.8 x 1.6		19
	Q50	1-port / 2-port	300 ~ 1400 MHz	5.0 x 5.0 x 1.7		20
	T3P / T4P	1-port / 2-port	300 ~ 1400 MHz	9.35 x 9.35 x 3.6		21
	F11	1-port	300 ~ 1400 MHz	11.1 x 4.6 x 3.2		21

Taping Specifications

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Product Overview, Quartz Crystals and Oscillators

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Company

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☐ Inquiry Form

Please specify the following parameters when inquiring SAW units
and send this form to saw@jauch.de or to **+49 (0) 77 20 9 45-100**

Company		Address	
First Name		State	
Last Name		Zip Code/City	
E-mail		Country	
Telephone		Fax	
Project		Quantity EAU	

Specification	SAW Filter		SAW Resonator	
	min.	max.	min.	max.
	typical		typical	
Center Frequency f_0 (MHz)				
Pass Bandwidth B (MHz)				
Insertion Loss IL (dB)				
Stop Band Attenuation A (dB)				
Amplitude Ripple AR (dB)				
Frequency Tolerance (kHz)				
Port			☐ 1-port	☐ 2-port
Terminating Impedance	0hm	pF	0hm	
Operating Temp. Range (°C)				
Package Type				
Notes, other requirements				

 = not applicable

SAW Resonators

Q30

R97



RoHS compliant



Pb free



actual size

3.0 x 3.0 mm

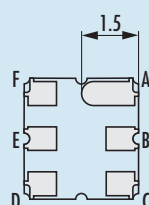
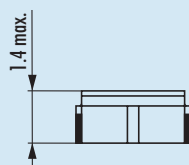
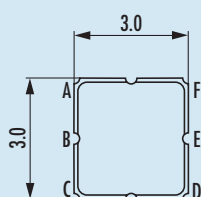


actual size

9.1 x 7.1 mm

	Q30 / 1-port	R97 / 1-port
Type	SAW Resonator	SAW Resonator
Frequency	300.0 ~ 1400.0 MHz	400.0 ~ 1100.0 MHz
Operating Temp Range	-40 ~ +85 °C	-40 ~ +85 °C
Insertion Loss	< 1.5 dB typical	< 1.5 dB typical
Tolerance	±15 kHz ~ ±200 kHz	±75 kHz ~ ±200 kHz
Typical Applications	RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry	RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry
Features	- ceramic seam weld package - excellent reliability and shock resistance - SMD miniature package	- ceramic seam weld package - excellent reliability and shock resistance - SMD package
Typical Frequencies	314.95 MHz 433.92 MHz 315.0 MHz 435.7 MHz 315.5 MHz 390.0 MHz	1090.0 MHz

Dimensions Q30

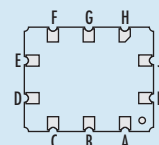
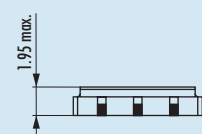
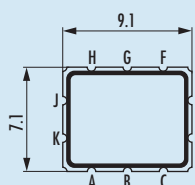


pin connection (example):

#A: Ground #E: Output or Input
 #B: Input or Output #F: Ground
 #C: Ground
 #D: Ground

Note: please refer to individual datasheet for the actual pin connection and exact dimensions and tolerances

Dimensions R97



pin connection (example):

#A: Ground #F: Ground
 #B: Input or Output #G: Output or Input
 #C: Ground #H: Ground
 #D: Ground #J: Ground
 #E: Ground #K: Ground

Note: please refer to individual datasheet for the actual pin connection and exact dimensions and tolerances

SAW Resonator

Q38



RoHS compliant



Pb free



actual size

3.8 x 3.8 mm



actual size

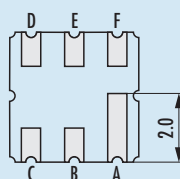
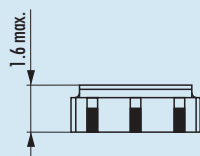
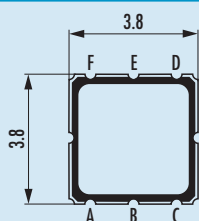
3.8 x 3.8 mm

Q38 / 1-port

Q38 / 2-port

Type	SAW Resonator	SAW Resonator
Frequency	300.0 ~ 1400.0 MHz	400.0 ~ 1400.0 MHz
Operating Temp Range	-40 ~ +85 °C	-40 ~ +85 °C
Insertion Loss	< 1.5 dB typical	< 1.5 dB typical
Tolerance	±15 kHz ~ ±200 kHz	±15 kHz ~ ±200 kHz
Typical Applications	RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry	RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry
Features	■ ceramic seam weld package ■ excellent reliability and shock resistance ■ SMD miniature package	
Typical Frequencies	314.95 MHz 433.92 MHz 315.0 MHz 435.7 MHz 315.5 MHz 390.0 MHz	1090.0 MHz

Dimensions



pin connection (example):

#A: Ground

#B : Output or Input

#C: Ground

#D: Ground

#E: Input or Output

#F: Ground

Note: please refer to individual datasheet for the actual pin connection and exact dimensions and tolerances

SAW Resonator

Q50



RoHS compliant



Pb free



actual size

5.0 x 5.0 mm

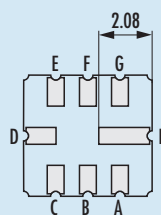
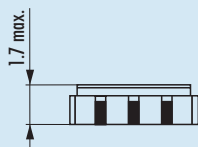
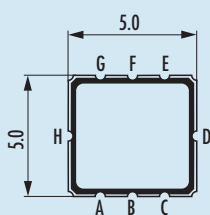


actual size

5.0 x 5.0 mm

	Q50 / 1-port	Q50 / 2-port
Type	SAW Resonator	SAW Resonator
Frequency	300.0 ~ 1400.0 MHz	400.0 ~ 1400.0 MHz
Operating Temp Range	-40 ~ +85 °C	-40 ~ +85 °C
Insertion Loss	< 1.5 dB typical	< 1.5 dB typical
Tolerance	±15 kHz ~ ±200 kHz	±15 kHz ~ ±200 kHz
Typical Applications	RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry	RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry
Features	■ ceramic seam weld package ■ excellent reliability and shock resistance ■ SMD miniature package	
Typical Frequencies	314.95 MHz 433.92 MHz 315.0 MHz 435.7 MHz 315.5 MHz 390.0 MHz	433.92 MHz 1030.0 MHz 434.42 MHz 868.35 MHz 915.0 MHz

Dimensions



pin connection (example):

#A: Ground	#F: Output or Input
#B: Input or Output	#G: Ground
#C: Ground	#H: (Case) Ground
#D: (Case) Ground	
#E: Ground	

Note: please refer to individual datasheet for the actual pin connection and exact dimensions and tolerances

SAW Resonators

T3P / T4P

F11



RoHS compliant



Pb free pins



actual size



T3P Ø 9.35 mm max. / T4P Ø 9.14 mm

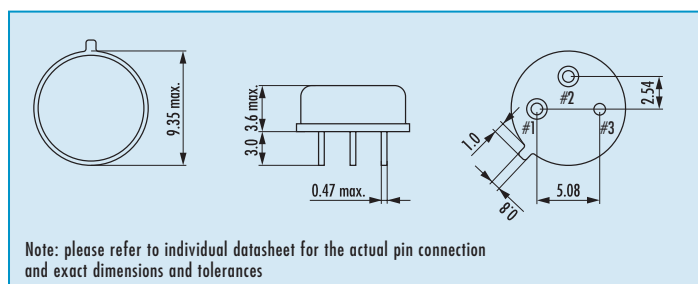


actual size

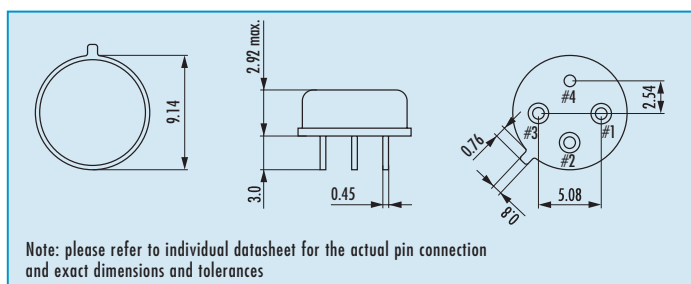
11.1 x 4.6 mm

	T3P / T4P 1-port	T3P / T4P 2-port	F11 / 1-port
Type	SAW Resonator	SAW Resonator	SAW Resonator
Frequency	300.0 ~ 1400.0 MHz	400.0 ~ 1100.0 MHz	300.0 ~ 1400.0 MHz
Operating Temp Range	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C
Insertion Loss	< 1.5 dB typical	< 1.5 dB typical	< 1.5 dB typical
Tolerance	±15 kHz ~ ±200 kHz	±15 kHz ~ ±200 kHz	±15 kHz ~ ±200 kHz
Typical Applications	RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry		RKS remote keyless entry systems, wireless remote control units, TV receiver, telecom products, mobile phones, remote sensors, security systems, wireless telemetry
Features	■ T0-39 full metal package ■ excellent reliability and shock resistance		■ F11 full metal package ■ excellent reliability and shock resistance
Typical Frequencies	314.95 MHz 435.7 MHz 315.0 MHz 433.92 MHz 315.5 MHz 390.0 MHz	403.55 MHz 414.25 MHz 433.92 MHz	314.95 MHz 315.0 MHz 315.15 MHz 390.0 MHz 433.92 MHz

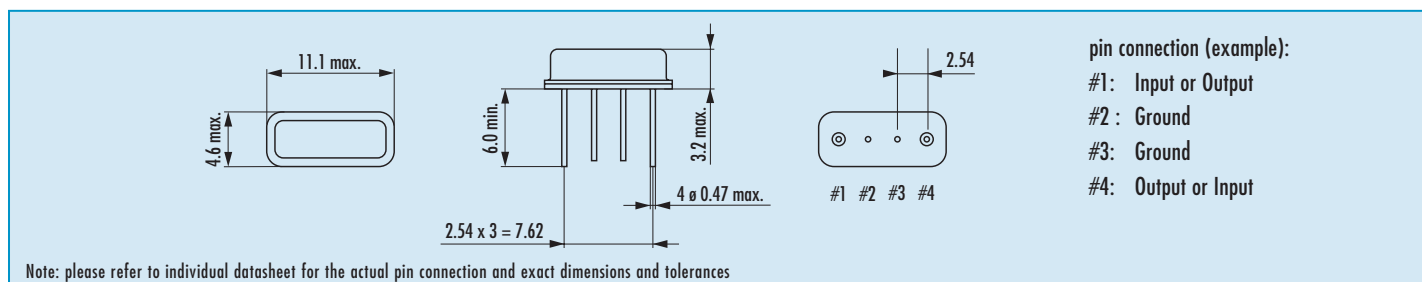
Dimensions T3P



Dimensions T4P

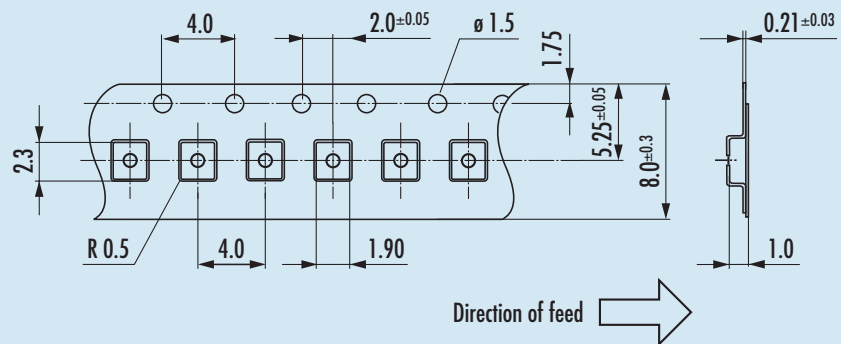


Dimensions F11

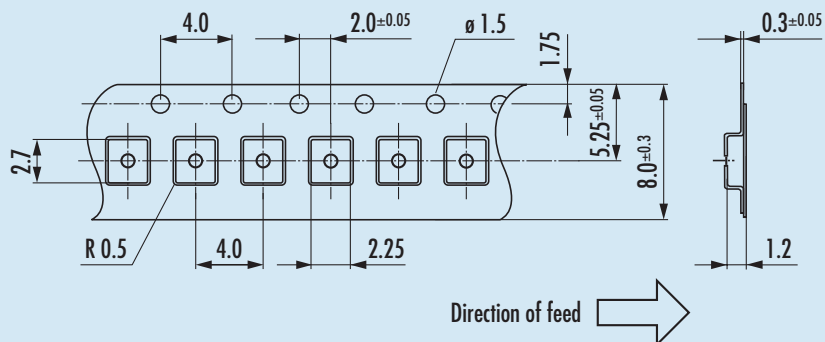


Taping Specifications

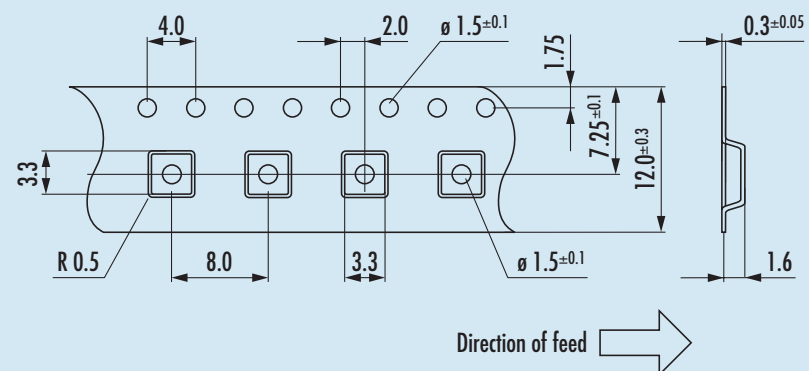
R21
2.0 x 1.6



R22
2.5 x 2.0

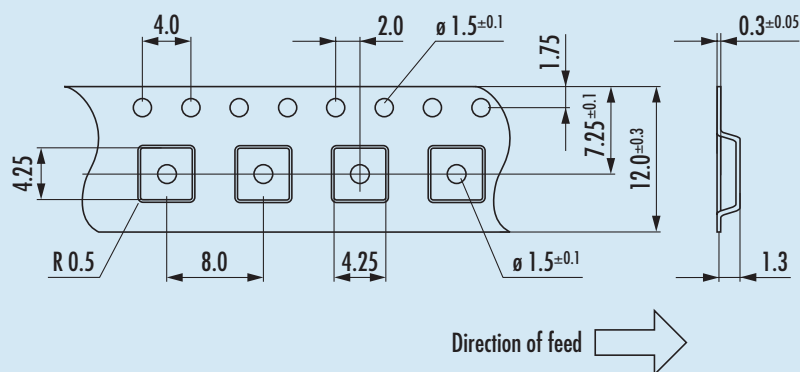


Q30
3.0 x 3.0

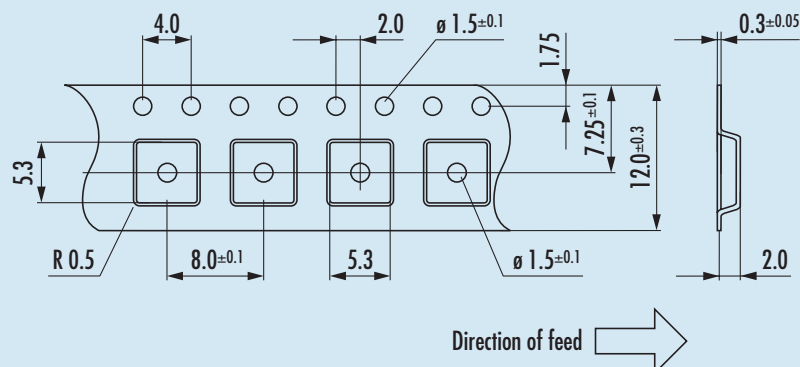


Taping Specifications

Q38
3.8 x 3.8



Q50
5.0 x 5.0



R75
7.0 x 5.0

