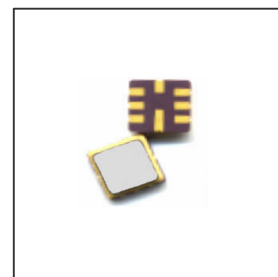


### 426.550 MHz SAW Resonator

#### ■ Features

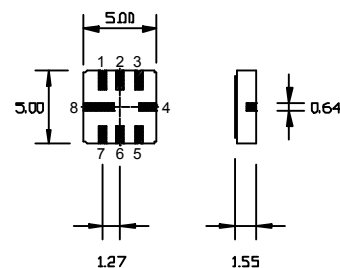
- One Port Resonator
- Low Series Resistance
- Quartz Stability
- Small Sizes



#### ■ Maximum Ratings

Rating	Value	Units
CW RF Power Dissipation	0	dBm
DC voltage Between Terminals	10	VDC
Operating Temperature Range	-40 / +85	°C
Storage Temperature Range	-40 / +85	°C
Soldering Temperature	+250	°C

Electrostatic Sensitive Device ( ESD )



Pin Configuration

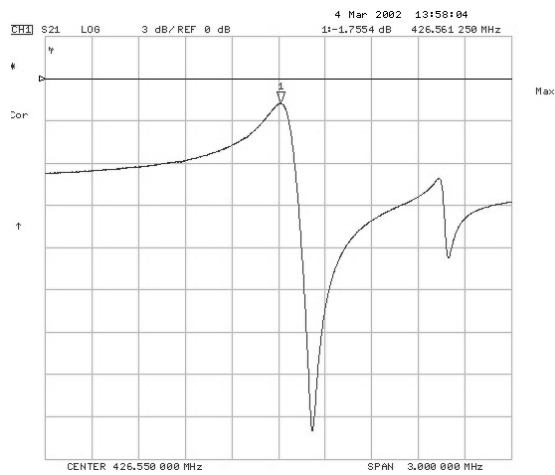
2 : Input  
6 : Output  
4,8 : Case Ground

Ordering code	Marking
RC0426D55A110	RC0426A1, date code

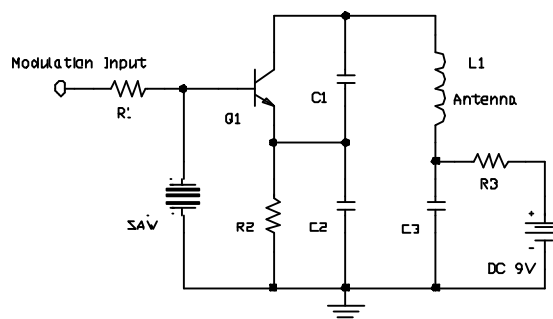
Ambient temperature	Ta = 25 °C					
Source impedance	Zs = 50 Ω					
Load impedance	ZL = 50 Ω					
Characteristic		Sym	Min.	Typ.	Max.	Units
Center Frequency		fc	426.475	426.550	426.625	MHz
Insertion Loss	Tolerance	Δfc	-----	-----	±75	KHz
	Quality Factor	IL	-----	1.5	2.2	dB
RF Equivalent RLC Model	Unloaded Q	Qu	-----	9250	-----	
	50Ω Loaded Q	QL	-----	2120	-----	
	Motional Resistance	R1	-----	23	-----	Ω
	Motional Capacitance	C1	-----	1.8	-----	fF
Temperature Stability	Motional Inductance	L1	-----	78.9	-----	μH
	Parallel Capacitance	C0	-----	2.0	-----	pF
	Turnover Temperature	To	10	25	40	°C
Aging of fc	Temperature Coefficient	FTC	-----	0.033	-----	ppm/°C²
				10	50	ppm/yr

1 Temperature dependence of fc :  $f_c (Ta) = f_c (To) (1 - FTC (Ta - To)^2)$

### ■ Typical SAW Resonator Response :



### ■ Typical Application Circuit:



### ■ RF Test Circuit :

