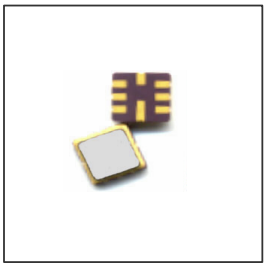
BRANCHY

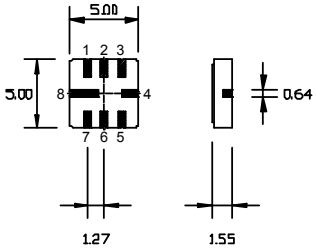
RC0426D55A110

426.550 MHz SAW Resonator



■ Features

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



Pin Configuration

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

■ 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 **S**ensitive **D**evice (**ESD**)

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
	Tolerance	Δfc	-----	-----	±75	KHz
Insertion Loss		IL	-----	1.5	2.2	dB
Quality Factor						
	Unloaded Q	Qu	-----	9250	-----	
	50Ω Loaded Q	QL	-----	2120	-----	
RF Equivalent RLC Model						
	Motional Resistance	R1	-----	23	-----	Ω
	Motional Capacitance	C1	-----	1.8	-----	fF
	Motional Inductance	L1	-----	78.9	-----	μH
	Parallel Capacitance	C0	-----	2.0	-----	pF
Temperature Stability						
	Turnover Temperature	To	10	25	40	°C
	Temperature Coefficient	FTC	-----	0.033	-----	ppm/°C²
Aging of fc				10	50	ppm/yr

1. Temperature dependance of fc : $fc(Ta) = fc(To)(1 - FTC(Ta - To)^2)$

BRANCHY TECHNOLOGY CO., LTD.
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TEL : (886) -3-4391499
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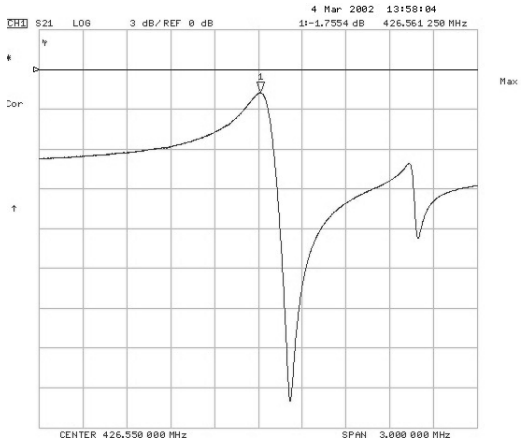
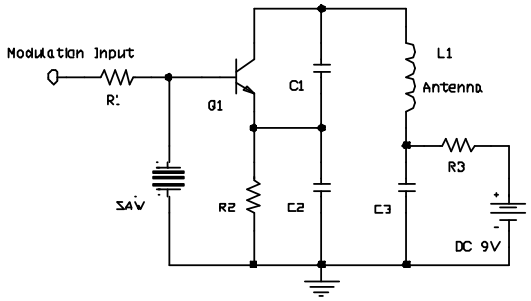
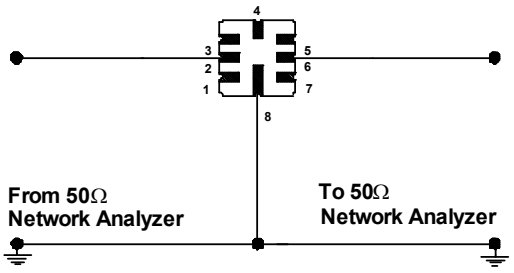
■ Typical SAW Resonator Response :



■ Typical Application Circuit:



■ RF Test Circuit :



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