

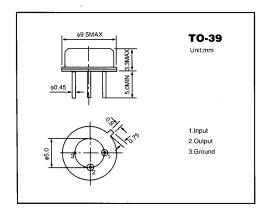
315MHZ One-port SAW Resonator For Wireless Remote Controller

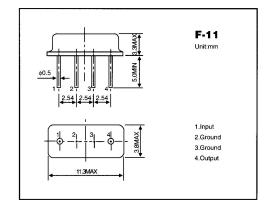
- Ideal for 315MHZ Remote-control and Wireless Security Transmitters
- Very Low Series Resistance
- Quartz Stability
- Rugged, Hermetic, Low-Profile TO-39 0r F-11 Case

Pin No.	Function			
1	Input or Output			
2	Output or Input			
3	Ground			

Marking: R315







1. Absolute Maximum Rating

Rating	Value	Units
CW RF Power Dissipation	+0	dbm
DC Voltage between Any Two Pins	±10	V
Case Temperature	-40 to +85	°C

2. Electrical Characteristics

Characteristic		Sym.	Min.	Тур.	Max.	Unit
Center Frequency Absolute Frequency		fc	314.025	315	315.075	MHz
(25°C) Tolerance from 433.92MHZ		Δ fc		±75		KHz
Insertion Loss		IL		1.2	2.5	dB
	Unloaded Q	QU		11000		
	50Ω loaded Q	QL		2000		
· · ·	Turnover Temperature	To	-	39	-	°C
	Turnover Frequency	fo		fc+8.4		KHz
	Frequency Temperature Coefficient	FTC		0.032		ppm/℃²
Frequency Aging (Value during the First Year)		f _A			10	ppm/yr
RF Equivalent RLC Model	Motional Resistance	R _M		18	26	Ω
	Motional Inductance	L _M		86		μH
	Motional Capacitance	См		1.56		pF
	Pin1 to Pin2 Static Capacitance	Co	1.7	2.0	2.3	pF
	Transducer Static Capacitance	CP		1.8		pF
DC Insulation Resistance between Any Two Pins			1.0			MΩ



NOTES:

- 1) Unless noted otherwise, case temperature $Tc=+25\pm2^{\circ}C$.
- 2) The center frequency fc is measured at the minimum insertion loss point, IL_{Min} , with the resonator in the 50 Ω test system (VSWR \leq 1.2:1). The shunt inductance, L_{test} , is tuned for parallel resonance with Co at fc. Typically, $f_{OSCILLATOR}$ or $f_{TRANSMITTER}$ is approximately equal to the resonator fc.
- 3) Turnover temperature, To, is the temperature of maximum (or turnover) frequency, fo. The nominal frequency at any case temperature, Tc, may be calculated from: f = fo(1-FTC(To-Tc)²). Typically oscillator To is 20°C less than the specified resonator To.
- 4) Frequency aging is the change in fc with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically aging is greatest the first year after manufacture, decreasing in subsequent years.
- 5) This equivalent RLC model approximates resonator performance near the resonant frequency and is provided for reference only. The capacitance Co is the static (nonmotional) capacitance between pin1 and pin2 measured at low frequency (10MHZ) with a capacitance meter. The measurement includes case parasitic capacitance with a floating case. For usual grounded case applications (with ground connected to either pin 1 or pin 2and to the case), add approximately 0.25pF to Co.
- 6) Derived mathematically from one or more of the following directly measured parameters: fc, IL, 3dB bandwidth, fc versus T

3. Others

- 1) Typically, equipment utilizing this device requires emissions testing and government approval, which is the responsibility of the equipment manufacturer.
- 2) Electrostatic Sensitive Device, observe precautions for handing.
- According to the different request of customer, we can supply the different Frequency precision, for example, ±75KHZ, ±150KHZ, ±250KHZ, etc.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Resonators category:

Click to view products by Yangxing manufacturer:

Other Similar products are found below :

 B39431R820H210
 CSTLS4M00G53Z-A0
 ECS-CR2-16.00-A-TR
 ECS-HFR-20.00-B-TR
 ECS-CR2-20.00-A-TR
 RO3164E-3

 CSTNE16M0V510000R0
 CSTNE14M7V510000R0
 AWSCR-4.19CRLB-C15-T3
 AWSCR-4.91CRLB-C15-T3
 AWSCR-5.00CPLB-C30-T4

 CSTNE8M00GH5C060R0
 CSTCW33M8X51R-R0
 CSTNE12M0G520000R0
 9AC04194152080D2JB
 CSTCR4M91G55B-R0

 CSTLS3M68G56-B0
 FC-12M32.768KHZ9PF20PPM
 7Y032768NW2
 ASR315S2
 ASR433.42E-T
 146-32.768-12.5-20-20/A

 X1A000091000500
 X1A0000910001
 AWSCR-25.00CW-T
 AWSZT-12.00MWD-T
 ECS-SR1-4.19-B-TR
 7C024000HW1
 7C012000IW1

 7C012000MW1
 7C016000HW1
 7C016000HW1
 7C012000IW1
 7C012000RW1
 7C012000RW1

 7C024000HW1
 7C024576RW1
 X201632MKB4SI
 7C027000MW1
 7E25000E18UCG
 7E50000E18UCG
 XYCCCLNANF

 16.000000MHZ
 XYDBPCNANF-12MHZ
 XYDBBCNANF-16.00000MHZ
 XYDBBCNANF-24.00000MHZ
 XYHCCLNANF

 24.000000MHZ
 XYBBCLNANF-26.00000MHZ
 XYDBBCNANF-24.00000MHZ
 XYHCCLNANF