

Unit 750, Block F, Wah Lok Industrial Centre, 31-35 Shan Mei Street, Fotan, N.T., Hong Kong

Specification for SAW Resonator (TO39) 433.92MHz (1-Port)

To:

UNION INSTRUMENTS CO., LTD.

Attn: Mr.TSUI

From: Mr. Ivan Wei

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SPEC #: 433M92

1. SCOPE

This specification shall cover the characteristics of 1-port SAW resonator with used for remote-control security.

2. **ELECTRICAL SPECIFICATION**

DC Voltage VDC	10V 10V50Hz/60Hz	
AC Voltage Vpp		
Operation temperature	-40°C to +85°C	
Storage temperature	-45°C to +85°C	
RF Power Dissipation	0dBm	

Electronic Characteristics

Item		Unites	Minimum	Typical	Maximum
Center Frequency		MHz	433.690	433.920	434.150
Insertion Loss		dB		1.5	2.5
Quality Factor Unload Q				12,800	
50 Ω Loaded Q				2,000	
Temperature Stability	Turnover Temperature	°C		39	
	Turnover Frequency	MHz		433.92	
	Freq.temp.Coefficient	ppm/°C 2		0.037	
Frequency Aging		ppm/yr		<±10	
DC. Insulation Resistance		МΩ	1.0		
RF Equivalent	Motional Resistance	Ω		18	26
	Motional Inductance	μН		86	
RLC Model	Motional Capacitance	pF		1.5	
Pin 1 to Pin 2 Static Capacitance		pF	1.7	2.0	2.3
Transducer Static Capacitance		pF		1.9	