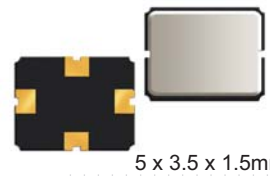


SMD ONE PORT 916.5 MHz SAW RESONATOR

ASR916.5S2

APPLICATION: Automotive Electronics/Remote Control Wireless Alarms



STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	916.405	916.5	916.595
Tolerance from Fo		KHz		±95	
Insertion Loss		dB	-	2.5	2.5
Quality Factor	Unloaded	-		23,509	
	50Ω loaded			4,000	
Temperature Stability	Turnover Temperature	°C	10	25	40
	Turnover Frequency	KHz		Fc	
	Freq. Temp. Coefficient	ppm/°C ²		0.032	
Frequency Aging		ppm/year		±50	
DC Insulation Resistance		MΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R ₁	Ω		20.5036	
	Motional Inductance L ₁	μH		83.704	
	Motional Capacitance C ₁	fF		0.3606	
	Shunt Capacitance C ₀	pF		2.2	
Operating temp.		°C	-40°C to +85°C		
Storage temp.		°C	-40°C to +85°C		
Max. Rating	DC voltage	V	±10		
RF Power Dissipation		dBm	10		

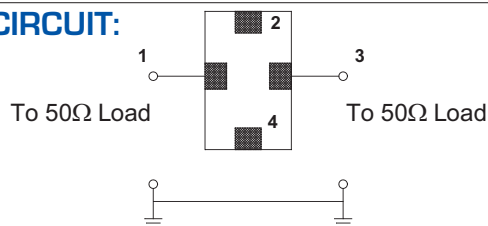
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

- ASR916.5 ZYX
(Z for month from A to L;
Y for year, i.e. 4 for 2004,
X: Traceability code)

PIN NO.	CONNECTIONS
1	Input/Output
3	Output/Input
2 & 4	Case Ground

TEST CIRCUIT:



NOTES:

- 1) Frequency aging is specified at 65°C or less.
- 2) The center frequency Fc, is the frequency of minimum IL with the resonator in the specified test fixture in a 50Ω test system with VSWR ≤ 1.2.
- 3) Unless otherwise specified, case temperature is 25°C ± 2°C.
- 4) The design model values are for reference only. The capacitance C0 is the measured static capacitance between either pin 1 and ground or pin 2 to ground.

OUTLINE DRAWING:

