

SMD ONE PORT 312.0 MHz SAW RESONATOR



5 x 3.5 x 1.5mm

ASR312A01-SS2

APPLICATION: Automotive Electronics/Remote Control

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	311.925	312.000	312.075
Insertion Loss		dB	-	1.5	2.5
Quality Factor	Unloaded	-	-	11,800	
	50Ω loaded		-	3,500	
Temperature Stability	Turnover Temperature	°C	37	25	67
	Turnover Frequency	KHz	-	fo	
	Freq. Temp. Coefficient	ppm/°C ²	-	0.032	
Frequency Aging		ppm/year	-	±10	
DC Insulation Resistance		MΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R ₁	Ω	-	43	78
	Motional Inductance L ₁	μH	-	260.2	
	Motional Capacitance C ₁	fF	-	2.2	
	Shunt Capacitance C ₀	pF	2.1	2.4	2.7
Operating temp.		°C	-40°C to +85°C		
Storage temp.		°C	-45°C to +85°C		
Max. Rating	DC voltage	V	10		
	AC voltage	V	10 (50Hz/60Hz)		
RF Power Dissipation		dBm	0		

Data measured with: Source Impedance: Z_s=50Ω, Load Impedance: Z_L=50Ω, T_A=25°C

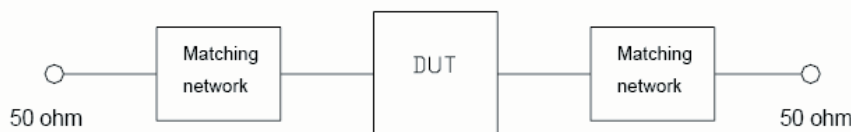
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

- 312R (312.0 Frequency in MHz)
- AZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004, X: Traceability code)

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

TEST CIRCUIT:



OUTLINE DRAWING:

