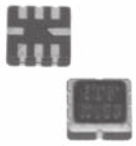
SMD ONE PORT 314.5 MHz SAW RESONATOR

ASR314.5E

RoHS Compliant



5 x 5 x 1.35mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	314.425	314.500	314.575
Tolerance from Fo		KHz		±75	
Insertion Loss		dB	-	1.2	1.8
Quality Factor	Unloaded	-		11,800	
	50Ω loaded			1,550	
Temperature Stability	Turnover Temperature	°C	25	40	55
	Turnover Frequency	KHz		Fc	
	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		15	23
	Motional Inductance L_1	μH		90.2504	
	Motional Capacitance C_1	fF		2.8405	
	Shunt Capacitance C_0	pF	2.15	2.45	2.75
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	0		

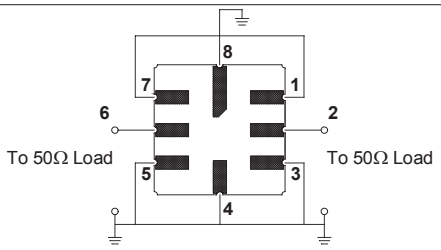
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

- ASR315R
  A ZYX

PIN NO.	CONNECTIONS
2	Input/Output
6	Output/Input
4 & 8	Case GND
1,3,5,7	N/C

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 two terminals.

OUTLINE DRAWING: