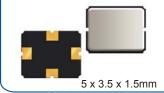
SMD ONE PORT 318.00 MHz SAW RESONATOR

ASR318S2





> STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.	
Center Frequency Fo			MHz	317.925	318.000	318.075
Tolerance from Fo			KHz		±75	
Insertion Loss			dB	-	1.2	1.8
Quality Factor	Unloaded		-		14,550	
	50Ω loaded				1,900	
Temperature Stability	ure 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		μΗ		109.4119	
	Motional Capacitance C ₁		fF		2.2917	
	Shunt Capacit	ance C ₀	pF	2.4	2.7	3.0
Operating temp.		°C	-40°C to +85°C			
Storage temp.		°C	-40°C to +85°C			
Max. Rating	DC voltage V		±0			
RF Power Dissipation		dBm	10			

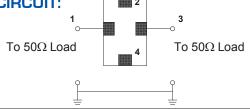
Electrostatic Sensitive Device. Handle with precaution.

> MARKING:

- ASR318 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	

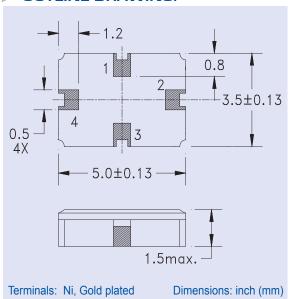
> TEST CIRCUIT:



> 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 3 to ground.

> OUTLINE DRAWING:



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