

SMD ONE PORT 423.22MHz SAW RESONATOR

ASR423.22E

APPLICATION: Automotive Electronics/Remote Control



5 x 5 x 1.35mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	423.145	423.220	423.295
Tolerance from Fo		KHz		±75	
Insertion Loss		dB	-	1.3	2.5
Quality Factor	Unloaded	-		12,300	
	50Ω loaded	-		1,900	
Temperature Stability	Turnover Temperature	°C	20.0	35.0	50
	Turnover Frequency	KHz		Fo	
	Freq. Temp. Coefficient	ppm/°C ²		0.037	
Frequency Aging		ppm/year		≤±10	
DC Insulation Resistance		MΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R ₁	Ω		19	29
	Motional Inductance L ₁	μH		89.547	
	Motional Capacitance C ₁	fF		1.5808	
	Shunt Capacitance C ₀	pF		2.5	2.4
Operating temp.		°C	-40°C to +85°C		
Storage temp.		°C	-45°C to +85°C		
Max. Rating	DC voltage	V	±10		
RF Power Dissipation		dBm	0		

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

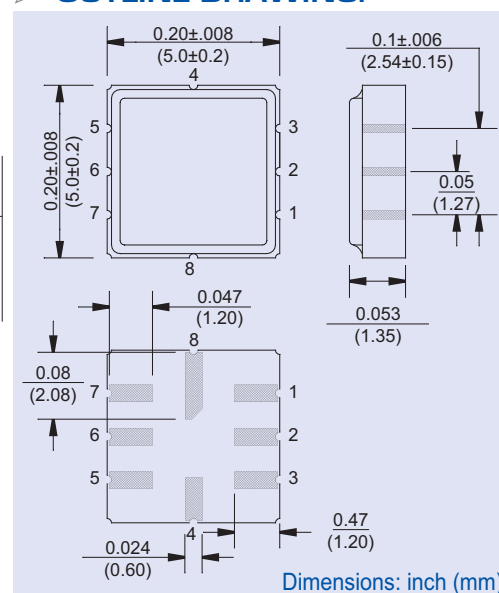
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

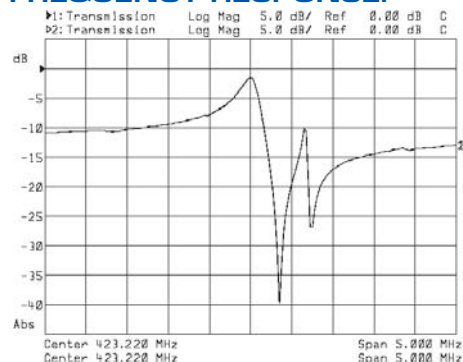
- 423.22R (423.22 Frequency in MHz)
- A ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004
X: Traceability code)

PIN NO.	CONNECTIONS
1	Input GND
2	Input
5	Output GND
6	Output
3,7	To be GNDed
4,8	Case GND

OUTLINE DRAWING:



FREQUENCY RESPONSE:



TEST CIRCUIT:

