

SMD ONE PORT 403.55E MHz SAW RESONATOR

ASR403.55E

APPLICATION: Automotive Electronics/Remote Control



5 x 5 x 1.35mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	403.475	403.55	403.625
Tolerance from Fo		KHz		±75	
Insertion Loss		dB	-	2.0	2.5
Quality Factor	Unloaded	-		16,400	
	50Ω loaded			2,100	
Temperature Stability	Turnover Temperature	°C	25	40	55
	Turnover Frequency	KHz		Fc	
	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		23	28
	Motional Inductance L ₁	μH		77.6154	
	Motional Capacitance C ₁	fF		2.0040	
	Shunt Capacitance C ₀	pF		1.8	
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.

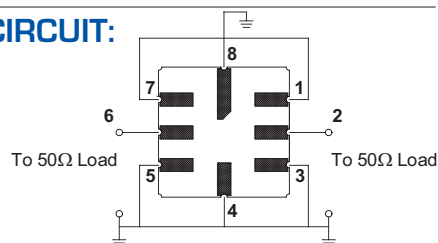
MARKING:

- 403.55R
AZYX

Frequency in MHz
ZY: Z for month
Y for year
X: Trace Code

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

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:

