

Shoulder 好达

SHOULDER ELECTRONICS CO., LTD.

CRYSTAL RESONATOR Data Sheet

PRODUCT 产 品: CRYSTAL RESONATOR

MODEL NO 型 号: 49S(2)-SMD

PREPARED 编 制: Fengyu

CHECKED 审 核: York

APPROVED 批 准:

DATE 日 期: 2007-01-25

1. SPECIFICATION

FREQUENCY RANGE	3.579545-80.000MHz
LOAD CAPACITANCE	10PF TO SERIES
FREQUENCY TOLERANCE AT 25°C	-/+30PPM MAXIMUM
FREQUENCY STABILITY AT -20 TO +70 °C	-/+30PPM MAXIMUM
OPERATING TEMPERATURE RANGE	-10 TO +60 °C
STORAGE TEMPERATURE RANGE	-40 TO +85 °C
EQUIVALENT SERIES RESISTANCE (ESR)	SEE ESR TABLE
DRIVE LEVEL	1.0 mW MAXIMUM
SHUNT CAPACITANCE	7PF MAXIMUM
AGING	-/+5PPM PER YEAR
INSULATION RESISTANCE	500 MOhm MINIMUM

2. FREQUENCY RANGE AND OSCILLATION MODE

FUNDAMENTAL (F)	THIRD OVERTONE (3OT)	FIFTH OVERTONE (5OT)
3.579545-30.000MHz	24.000-70.000MHz	60.000-80.000MHz

3. PART NUMBERING SYSTEM

HOLDER TYPE	FREQUENCY	MODE	LOAD CAPACITANCE	FREQUENCY TOLERANCE AT 25°C	FREQUENCY STABILITY AT -10 TO +60 °C
49S-SMD	IN MHz	F	10 TO 33PF FOR PARALLEL S FOR SERIES	30 FOR -/+30PPM	30 FOR -/+30PPM
49S2-SMD		3OT 5OT			

OPERATING TEMPERATURE RANGE	OPTIONS	
B FOR -10 TO +60 °C	T	TAPE AND REEL

FUNDAMENTAL MODE NOT NEEDED IN PART NUMBER
30PPM OF FREQUENCY TOLERANCE AND FREQUENCY STABILITY NOT NEEDED IN PART NUMBER
-10 TO +60 °C OF OPERATING TEMPERATURE RANGE NOT NEEDED IN PART NUMBER
TAPE AND REEL NOT NEEDED IN PART NUMBER

4. ESR TABLE (Ohm)

3.5-4.0 MHz	4.0-8.0 MHz	8.0-14 MHz	14-24 MHz	>24 MHz	
150	100	60	40	40 (F)	80 (3OT)

5. DIMENSIONS

