

# Shoulder 好达

SHOULDER ELECTRONICS CO., LTD.

## CRYSTAL RESONATOR Data Sheet

PRODUCT 产品: CRYSTAL RESONATOR

MODEL NO 型号: 49U

PREPARED 编制: Fengyu

CHECKED 审核: York

APPROVED 批准:

DATE 日期: 2007-01-25

## 1. SPECIFICATION

FREQUENCY RANGE	1.8432-100.000MHz
LOAD CAPACITANCE	10PF TO SERIES
FREQUENCY TOLERANCE AT 25°C	-/+30PPM MAXIMUM
FREQUENCY STABILITY AT -20 TO +70 °C	-/+30PPM MAXIMUM
OPERATING TEMPERATURE RANGE	-20 TO +70 °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)
1.8432-30.000MHz	24.000-70.000MHz	60.000-100.000MHz

## 3. PART NUMBERING SYSTEM

HOLDER TYPE	FREQUENCY	MODE	LOAD CAPACITANCE	FREQUENCY TOLERANCE AT 25°C	FREQUENCY STABILITY AT -20 TO +70 °C
49U	IN MHz	F 3OT 5OT	10 TO 33PF FOR PARALLEL S FOR SERIES	30 FOR -/+30PPM	30 FOR -/+30PPM

OPERATING TEMPERATURE RANGE	OPTIONS	
A FOR -20 TO +70 °C	3RD 3PIN SL SP T	THIRD LEAD THREE PIN BASE PLASTIC SLEEVE PLASTIC SPACER TAPE AND REEL

FUNDAMENTAL MODE NOT NEEDED IN PART NUMBER

30PPM OF FREQUENCY TOLERANCE AND FREQUENCY STABILITY NOT NEEDED IN PART NUMBER

-20 TO +70 °C OF OPERATING TEMPERATURE RANGE NOT NEEDED IN PART NUMBER

#### 4. ESR TABLE (Ohm)

1.8-2.0 MHz	2.0-2.5 MHz	2.5-3.5 MHz	3.5-4.0 MHz	4.0-8.0 MHz	8.0-14 MHz	14-24 MHz	>24 MHz
600	400	200	120	90	60	40	40

#### 5. DIMENSIONS

