

# K Band Surface Mount Circulator

## JCM23K8T24K45XM0

### Description:

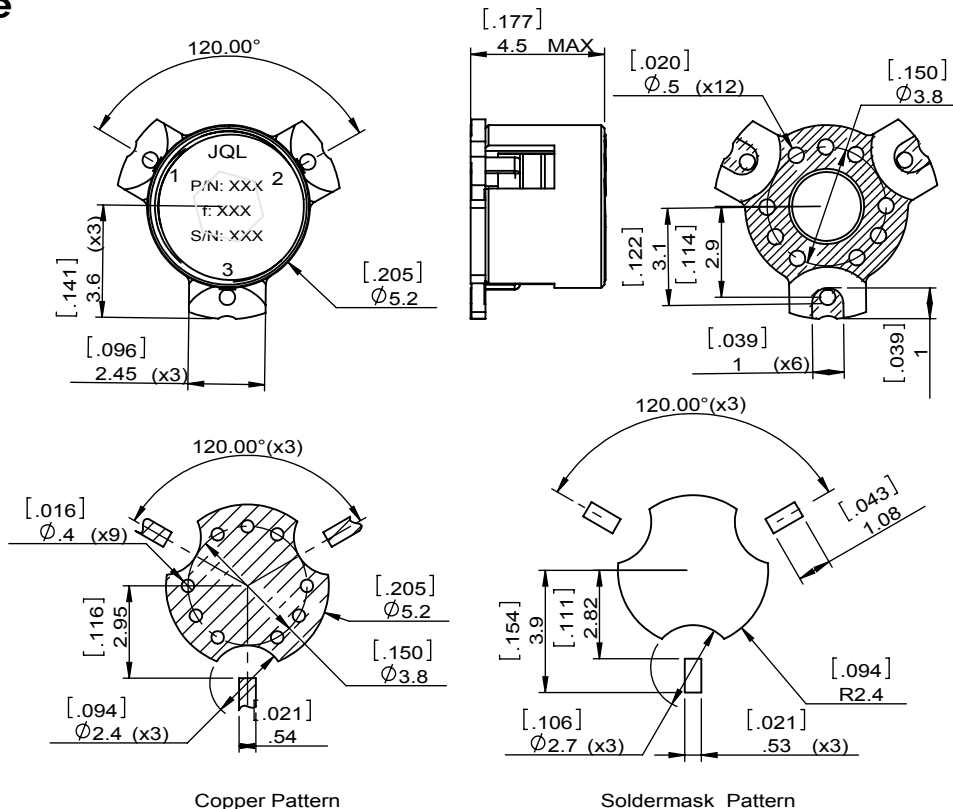


JCM23K8T24K45XM0 is a surface mount circulator in the frequency 23.800~24.450 GHz. The device is extremely stable over the temperature range of -20°C to +75°C, with maximum insertion loss of 1.2dB and minimum return loss of 16.0dB. This circulator can handle a CW Power FWD/REV/PK(Watt) of 1/1/-

### Electrical Specification

Part Number	JCM23K8T24K45XM0
Frequency (MHz)	23.800~24.450
Insertion Loss(dB)MAX	1.2
Isolation(dB)MIN	16.0
Return Loss(dB)MIN	16.0
Operating Temperature	-20~+75
Power FWD/REV/PK(Watt)	1/1/-

### Outline



Copper Pattern

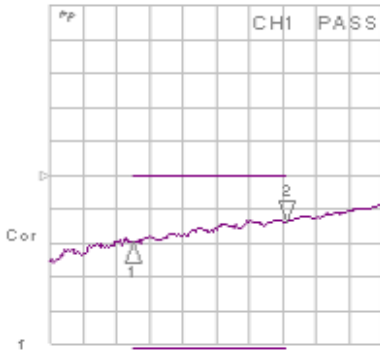
Soldermask Pattern

# K Band Surface Mount Circulator

## JCM23K8T24K45XM0

### Test Data

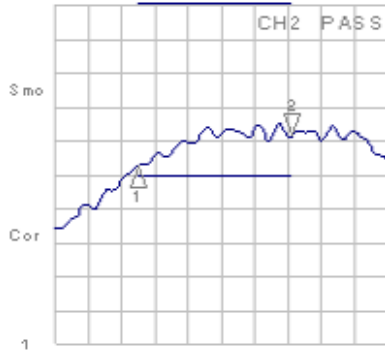
CH1 LOG 3 dB/ REF -16 dB  
S11 2:-20.053 dB 24.450 000 000 GHz



CH1 Markers  
1:- 21.888 dB  
23.8000 GHz

CENTR24150.000 MHz SPAN 1400.000 MHz

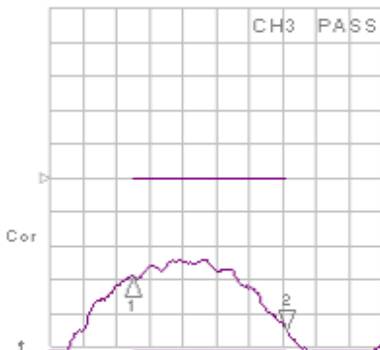
CH2 LOG .2 dB/ REF -1.2 dB  
S21/M 2:-.36300 dB 24.450 000 000 GHz



CH2 Markers  
1:- 1.1390 dB  
23.8000 GHz

CENTR24150.000 MHz SPAN 1400.000 MHz

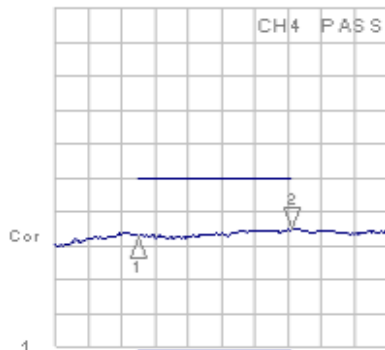
CH3 LOG 3 dB/ REF -16 dB  
S12 2:-23.557 dB 24.450 000 000 GHz



CH3 Markers  
1:- 24.658 dB  
23.8000 GHz

CENTR24150.000 MHz SPAN 1400.000 MHz

CH4 LOG 3 dB/ REF -16 dB  
S22 2:-20.513 dB 24.450 000 000 GHz



CH4 Markers  
1:- 21.155 dB  
23.8000 GHz

CENTR24150.000 MHz SPAN 1400.000 MHz

### Applications

- Radar

**JQL TECHNOLOGIES**  
 TECHNOLOGY ON THE MOVE