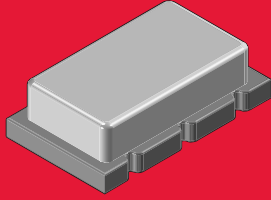


FEATURES

- Low profile SMD package
- Wide frequency range
- Tape & Reel packaging



SMD CERAMIC RESONATOR

The SMCRS Series SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

PART NUMBERING GUIDE "EXAMPLE"

PART NUMBER	FREQUENCY
SMCRS	4.00

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

MODEL	FREQUENCY RANGE (MHz)	FREQUENCY TOLERANCE @ 25°C (%)	OPERATING TEMPERATURE RANGE	OSCILLATION FREQUENCY DRIFT -20° ~ 80°C	SOLDER REFLOW CONDITION
SMCRS	2.00 ~ 30.000 MHz	±0.5	-20 ~ +80°C	(2.0 ~ 8.00MHz) ±0.2% max.	+220°C Max.
SMCRS	2.00 ~ 30.000 MHz	±0.5	-20 ~ +80°C	(8.1 ~ 12.00MHz) ±1.0% max.	+220°C Max.
SMCRS	2.00 ~ 30.000 MHz	±0.5	-20 ~ +80°C	(12.1 ~ 20.00MHz) ±0.5% max.	+220°C Max.
SMCRS	2.00 ~ 30.000 MHz	±0.5	-20 ~ +80°C	(20.1 ~ 30.00MHz) ±0.2% max.	+220°C Max.

Complete part number to include frequency i.e. SMCRS-4.00

PACKAGE DIMENSIONS (mm)

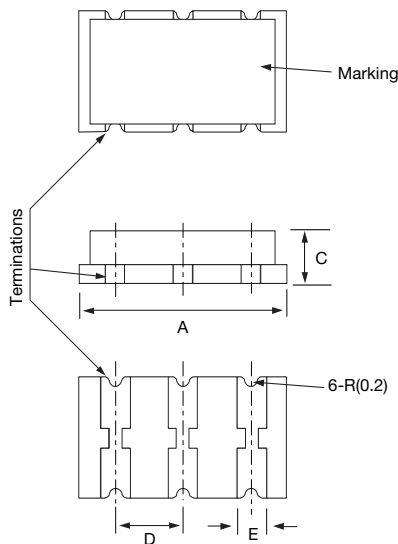


Figure 1) Top, Side, Bottom & End views

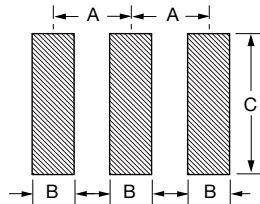


Figure 2) Land Pattern

FREQUENCY RANGE (MHz)	DIMENSIONS (mm)				
	A	B	C	D	E
2 - 13	7.8±0.5	3.2±0.3	1.6±0.5	2.5±0.2	1.0
13.1 - 20	5.5±0.5	3.2±0.3	1.6±0.5	1.9±0.2	1.2
20.1 - 30	5.5±0.5	4.5±0.5	1.6±0.5	1.9±0.2	1.2

PIN CONNECTIONS

#1	In/Out
#2	Ground
#3	Out/In

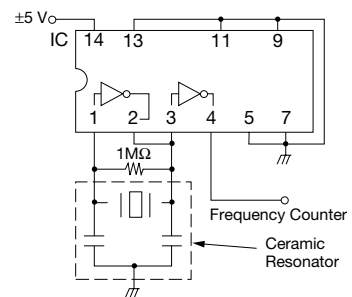


Figure 3) Test Circuits

FREQUENCY RANGE (MHz)	DIMENSIONS (mm)			
	A	B	C	D
2 - 13	2.5	1.2	4.7	1.2
13.1 - 20	1.9	1.2	4.2	1.2
20.1 - 30	1.9	1.2	5.5	1.2

FREQUENCY	IC
2 ~ 8.38 MHz	4069UBC
8.4 ~ 30 MHz	74HCU04