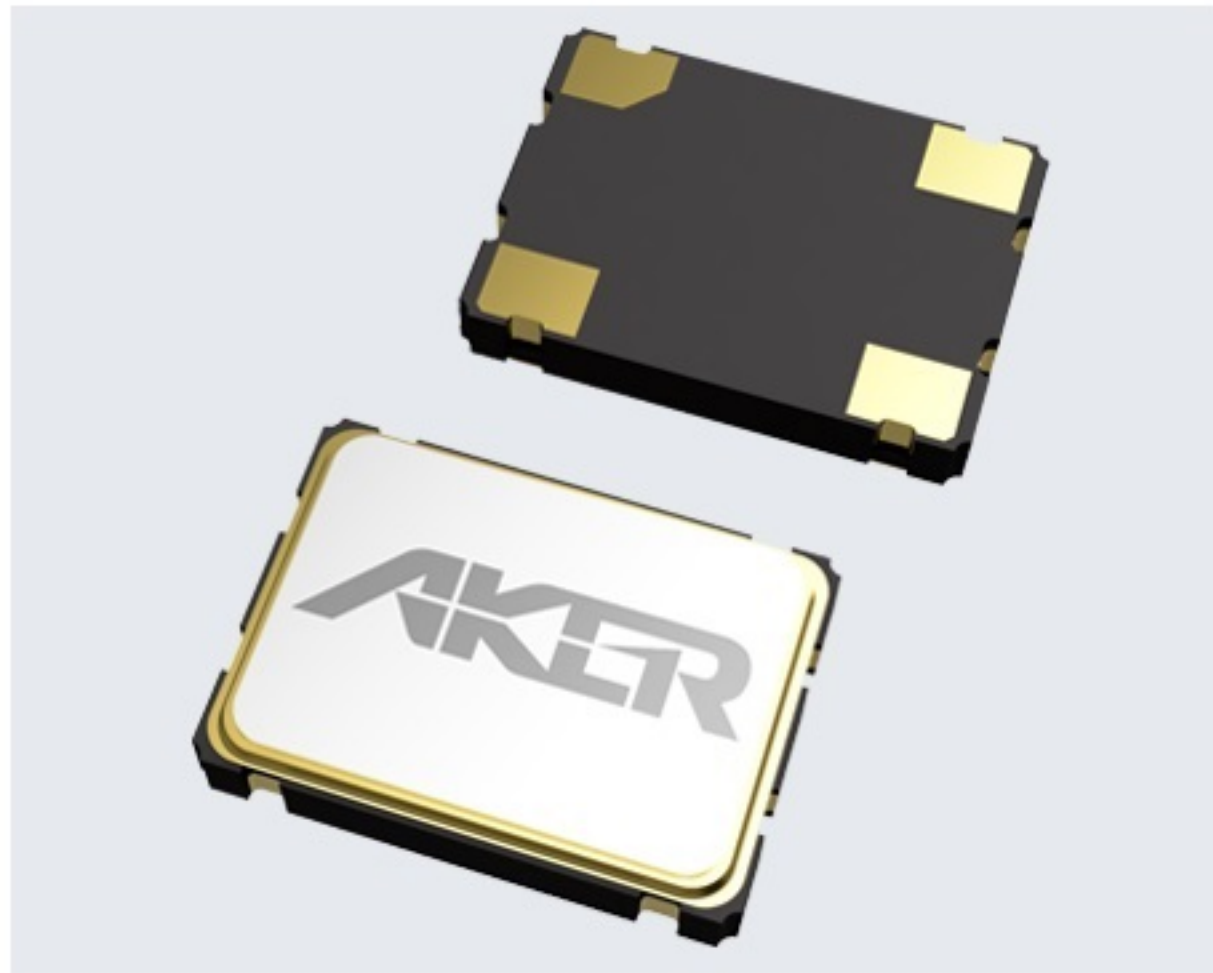


CRYSTAL OSCILLATORS

LOW EMI

ACTUAL SIZE: 

SMGN-751 SERIES CERAMIC PACKAGE



APPLICATIONS

- ▶ Notebook PC
- ▶ Portable PC
- ▶ LCD
- ▶ Digital Camera
- ▶ Wireless LAN
- ▶ Mobile Phone

FEATURES

- ▶ Spread Spectrum Low EMI Oscillators
- ▶ Low Power Consumption
- ▶ RoHS Compliant

Specification

MODEL

FREQUENCY RANGE	MHz	1.000 ~ 166.000	1.000 ~ 200.000
FREQUENCY STABILITY*	ppm	± 25 ~ ± 100	
OPERATING TEMPERATURE	°C	- 20 ~ + 70 Or Specify (- 40 ~ + 85 is available)	
STORAGE TEMPERATURE	°C	- 55 ~ + 125	
POWER SUPPLY VOLTAGE	VDC	+2.5 ± 5%	+3.3 ± 5%
OUTPUT LEVEL		CMOS	
OUTPUT SYMMETRY	%	45 ~ 55 (at 50% VDC)	
INPUT CURRENT			
1.000 ~ 49.999MHz	mA (Max.)	20	20
50.000 ~ 99.999MHz	mA (Max.)	30	30
100.000 ~ 149.999MHz	mA (Max.)	30	35
150.000 ~ 200.000MHz	mA (Max.)	35	40
RISE / FALL TIME (10% to 90% ~ 90% to 10% VDC)			
1.000 ~ 49.999MHz	ns (Max.)	10.0	
50.000 ~ 99.999MHz	ns (Max.)	5.0	
100.000 ~ 149.999MHz	ns (Max.)	4.0	
150.000 ~ 200.000MHz	ns (Max.)	3.0	
OUTPUT LOAD	pF	15	
MODULATION FREQUENCY	KHz	30 ~ 40	
CYCLE TO CYCLE JITTER (1-σ)	ps	± 250	
AGING	ppm/Year	± 3	

*Inclusive of 25°C $\pm$ 3°C & Operating Temperature Range.

**Specification subject to change without notice.

Spread Spectrum Modulation

Center Spread	Down Spread
$\pm 0.125\% \sim \pm 2.0\%$	-0.25% ~ -4.0%

Pin Connection

PIN No.	Connection
#1	Enable/Disable
#2	GND
#3	Output
#4	VDC

Enable/Disable Function

Pin #1	Pin #3
HIGH(OPEN)	Output
LOW	High Impedance

Dimension(mm)

SMGN-751 SERIES

