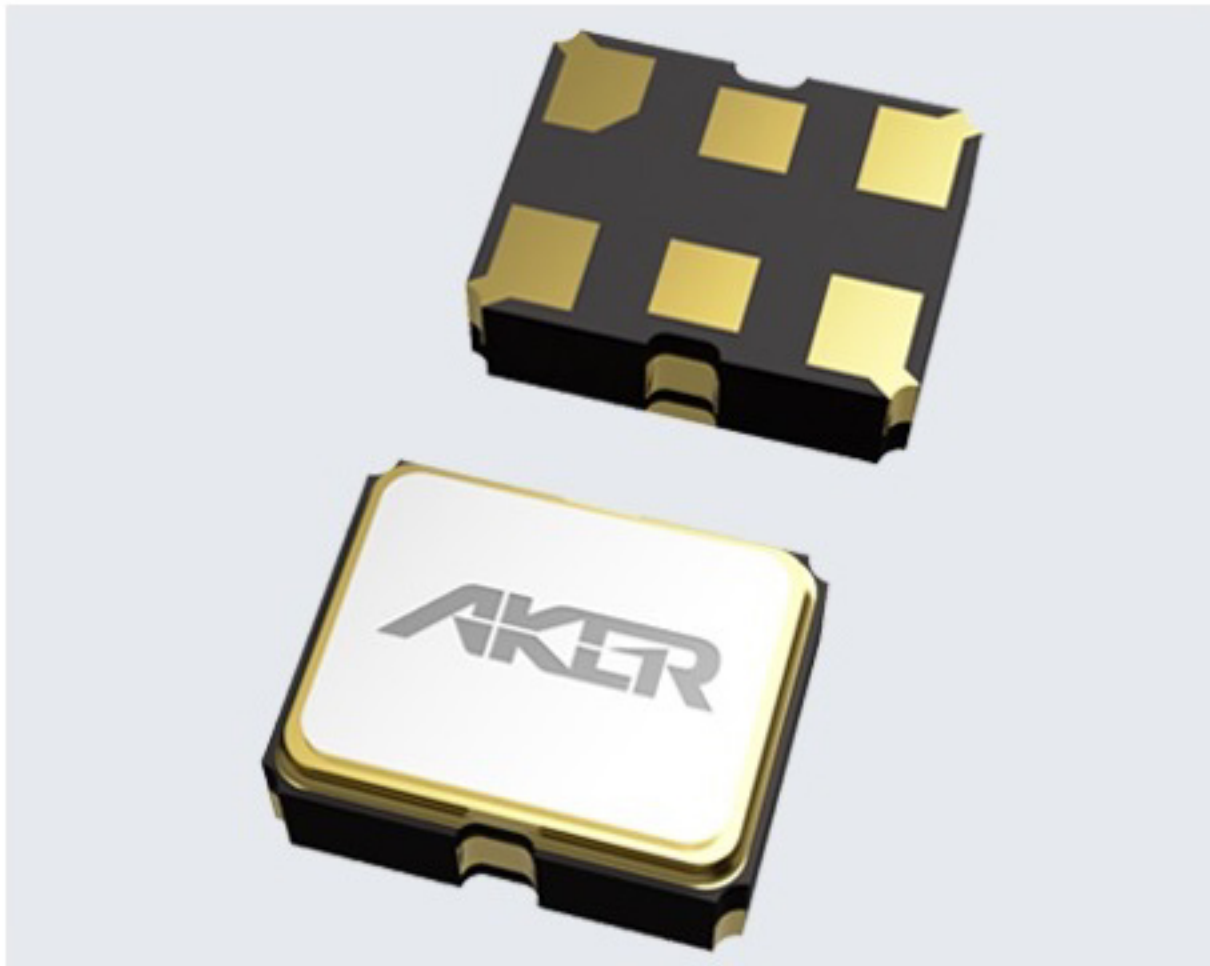


CRYSTAL OSCILLATORS

LVPECL

ACTUAL SIZE: ☐

SMEN-221 SERIES CERAMIC PACKAGE



APPLICATIONS

- ▶ SONET/SDH
- ▶ Fiber Channel
- ▶ Ethernet

FEATURES

- ▶ LVDS Complementary Output
- ▶ RoHS Compliant

Specification

MODEL

FREQUENCY RANGE	MHz	312.500000
FREQUENCY STABILITY*	ppm	± 20
OPERATING TEMPERATURE	°C	- 40 ~ + 105
STORAGE TEMPERATURE	°C	- 55 ~ + 125
POWER SUPPLY VOLTAGE	VDC	+3.3 ± 5%
OUTPUT VOLTAGE HIGH (V _{OH})	V (Min.)	VDC-1.1
OUTPUT VOLTAGE LOW (V _{OL})	V (Max.)	VDC-1.5
OUTPUT LOAD (Connect to VDC -2V)	Ω	50
OUTPUT SYMMETRY	%	45 ~ 55
INPUT CURRENT		
312.500000MHz	mA (Max.)	60
INPUT VOLTAGE		
INPUT ENABLE VOLTAGE (V _{IH})	V (Min.)	80%VDC
INPUT DISABLE VOLTAGE (V _{IL})	V (Max.)	20%VDC
RISE / FALL TIME (20% to 80% / 80% to 20% Output Swing)		
312.500000MHz	ns (Max.)	0.35
PHASE JITTER RMS (Fj:12K~20MHz)	fs (Max.)	30(typ) 40(max)
AGING	ppm/Year	± 3

*Inclusive of 25°C±3°C & Operating Temperature Range.

**Specification subject to change without notice.

Pin Connection

PIN No.	Connection
#1	Enable/Disable
#2	N.C.
#3	GND
#4	Output Q
#5	Output QN
#6	VDC

Enable/Disable Function

Pin #1	Pin #4 & Pin #5
HIGH(OPEN)	Output
LOW	High Impedance

Dimension(mm)

SMEN-221 SERIES

