

CRYSTAL OSCILLATORS

Automotive Grade

ACTUAL SIZE: ☐

SMAF-161 SERIES CERAMIC PACKAGE



APPLICATIONS

- ▶ Camera
- ▶ TPMS
- ▶ Bluetooth

FEATURES

- ▶ Seam Seal
- ▶ Excellent Solderability
- ▶ Tri-State
- ▶ Low Power Consumption
- ▶ RoHS Compliant
- ▶ IATF-16949 Certified
- ▶ AEC-Q200 Qualified

Specification

MODEL

FREQUENCY RANGE	MHz	2.000 ~ 60.000			
FREQUENCY STABILITY*	ppm	± 25 ~ ± 100			
OPERATING TEMPERATURE	°C	- 40 ~ + 85 Or Specify (- 40 ~ + 125 is available)			
STORAGE TEMPERATURE	°C	- 55 ~ + 125			
POWER SUPPLY VOLTAGE	VDC	+1.8 ± 10%	+2.5 ± 10%	+3.3 ± 10%	+1.62 ~ +3.63
OUTPUT LEVEL		CMOS			
OUTPUT SYMMETRY**	%	45 ~ 55 (at 50% VDC)			

INPUT CURRENT

2.000 ~ 9.999MHz	mA (Max.)	3	4	5	5
10.000 ~ 19.999MHz		4	5	6	6
20.000 ~ 31.999MHz		5	6	7	7
32.000 ~ 60.000MHz		6	7	8	8

RISE/FALL TIME

2.000 ~ 9.999MHz	ns (Max.)	6	5	5	6
10.000 ~ 19.999MHz		6	5	5	6
20.000 ~ 31.999MHz		5	5	5	5
32.000 ~ 60.000MHz		5	5	5	5
OUTPUT LOAD		15 pF 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	GND
#3	Output
#4	VDC

Enable/Disable Function

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

Dimension(mm)

SMAF-161 SERIES

