

CRYSTAL OSCILLATORS

Automotive Grade

ACTUAL SIZE:

SMAF-038400-ABZ6T00

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 - 40 ~ + 125 | | | |
| 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 | | | | | |
| 2.0 ~ 9.9MHz | mA (Max.) | 3 | 4 | 5 | 5 |
| 10.0 ~ 19.9MHz | | 4 | 5 | 6 | 6 |
| 20.0 ~ 31.9MHz | | 5 | 6 | 7 | 7 |
| 32.0 ~ 60.0MHz | | 6 | 7 | 8 | 8 |
| RISE/FALL TIME | | | | | |
| 2.0 ~ 9.9MHz | ns (Max.) | 6 | 5 | 5 | 6 |
| 10.0 ~ 19.9MHz | | 6 | 5 | 5 | 6 |
| 20.0 ~ 31.9MHz | | 5 | 5 | 5 | 5 |
| 32.0 ~ 60.0MHz | | 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-211 SERIES

