

# The world's first K-band capable DAC, the EV12DS460A



## The EV12DS460A

Introducing the world's first DAC performing direct signal generation in the K-band frequency range, removing the need for signal up-conversion, offering SWaP benefits and reducing cost of ownership.



This DAC provides an analog bandwidth beyond 7GHz and contains a flexible input multiplexer guaranteeing sampling rates at 6 GSps with the ability to operate at 7 GSps.

### SFDR at 6 GSps:

Nyquist zone	Output mode	Frequency	SFDR
NZ1	NRTZ	2940 MHz	56 dBc
NZ2	RF	5940 MHz	58 dBc
NZ3	RF	8940 MHz	49 dBc
NZ4	RF	11950 MHz	49 dBc
NZ7	RF	18070 MHz	43 dBc
NZ8	RF	23950 MHz	38 dBc

The EV12DS460A is equipped with four output operating modes and includes an option to program pulse shaping, making it proficient at handling the most specific of RF applications.

### Suitable applications

- + Arbitrary waveform generators
- + Direct digital synthesis for broadband applications
- + Automatic test equipment
- + Radar waveform signal synthesis

### Learn more

Read our white paper explaining how this DAC simplifies direct digital synthesis up to 26.5GHz, available at the EV12DS460A resource hub.

[teledyne-e2v.com/DS460](http://teledyne-e2v.com/DS460)