



Part Number DAC-1425SM, Digital-to-Analog Converters

The **DAC-1425SM** is a Digital to Analog Converter with 14-bit resolution and up to 250MSPS conversion rate. It operates from a single +3V to +5V supply and contains a precision internal 1.2 V temperature compensated Bandgap voltage reference, external reference option, edge-triggered CMOS input latches and a power-down "sleep" mode. It offers 2mA to 20mA Output Current.

This converter provides excellent dynamic performance making it ideal for applications such as signal reconstruction, high-resolution imaging, cellular basestations, test and medical instruments. DATEL offers this converter in a small low cost plastic 28-pin TSSOP fully tested over the operating temperature of -55°C to +125°C with ATE results recorded and stored.

The **DAC-1425SM** is a low cost enhanced Commercial OFF-The-Shelf (COTS) devices and is the best choice for Ruggedized, Military, Avionics, Aerospace and Medical applications that does not require Hermetic or full MIL-Standard 883 products.

Specifications

Number of Channels	1
Resolution	14 Bit
Settling Time	35 ns
Power Consumption	0.075 W
Differential Non-Linearity Error/Other	1.0 LSB
Integral Non-Linearity Error/Other	2.0 LSB
Sampling Rate	250 MHz
Spurious Free Dynamic Range	72
Package Type	TSSOP Plastic
Required Supply Voltage 1st	+3 V
Operating Temp. Range (min)	-55 °C
Operating Temp. Range (max)	+125 °C
RoHS	Yes
Status	Recommended for new design

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