Fixed-frequency synthesizer features low phase noise

Z-Communications announces a new RoHS compliant Fixed Frequency Synthesizer model SFS4000C-LF for Satellite Communications and Test Equipment. The SFS4000C-LF is a single frequency synthesizer that is phase locked at 4000 MHz while using a 10 MHz reference. This coaxial resonator PLL features remarkable phase noise of -102 dBc/Hz @ 10 kHz offset and typical sideband spurs of -65 dBc.

The SFS4000C-LF is designed to deliver a typical output power of 0 dBm into a 50Ω load while operating off a VCO voltage supply of 5 Vdc and PLL chip voltage of 3.3 Vdc, each drawing 30 mA and 11 mA, respectively. The innovative, low phase noise device is designed to operate over the extended commercial temperature range of -25 to 90ºC. The SFS4000C-LF features typical 2nd harmonic suppression of -15 dBc and comes in Z-Comm's industry standard PLL-V12C package measuring 0.60 in. x 0.60 in. x 0.22 in. It is available in tape and reel packaging for production requirements making it ideal for automated surface mount assembly and reflow.

The SFS4000C-LF is also well suited for satellite communications and test and measurement applications that require low phase noise performance. Additional specifications for this product can be found on-line at www.zcomm.com [1].

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