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DESCRIPTION

ICS FEMTOCLOCK
The ICS870919I is an LVCMOS clock generator that uses an internal phase lock loop (PLL) for frequency multiplication and to lock the low-skew outputs to the selected reference clock. The device offers eight outputs. The PLL loop filter is completely internal and does not require external components. Several output configurations of the PLL feedback and a divide-by-2 (controlled by FREQ. SEL) allow applications to optimize frequency generation over a wide range of input reference frequencies. The PLL can also be disabled by the PLL_EN control signal to allow for low frequency or DC testing. The LOCK output asserts to indicate when phase-lock has been achieved. The ICS870919I device is a member of the HiperClocks family of high performance clock solutions from IDT.

Two selectable single-ended input reference clocks Eight single-ended clock outputs Internal PLL does not require external loop filter components 5V tolerant inputs
Maximum output frequency: 160MHz, (2XQ output) Maximum output frequency: 80MHz, (Q0:Q4 and nQ5 outputs)
LVCMOS interface levels for all inputs and outputs
PLL disable feature for low-frequency testing PLL lock output Selectable synchronization of output to input edge Output drive capability: ±24mA Output skew: 300ps (maximum), Q0:Q4
Output skew: 500ps (maximum), all outputs Full 3.3V supply voltage
Available in lead-free (RoHS 6) packages
-40°C to 85°C ambient operating temperature

Generic Part: 8709191

Category: Zero Delay Buffers (PLL)

PARAMETERS

QSOP Package Voltage 3.3 V Temperature NA Speed Divide Value 4x Input Style S/E Max. Input Frequency 100 Min. Input Frequency 2.5 No. of Outputs Output Frequency Output Style Core Supply Voltage (VDD) Min. Output Frequency

Output Supply Voltage (VDDO) No. of Inputs

Max. Output Frequency Temp. Grade Multiplication/Divide

PACKAGE

QSQP 28 (PCG28) Package Description QSOP 150 MIL Status Active Class PLASTIC Category Green Pb (Lead) Free Pb Free e3 Sn Category Mark R Package OSOP Туре Lead Count 28 Length Width 3.8 mm 1.47 mm Thickness Pitch 0.64 mm Tube / Tray TUBE Quantity per Tube/Tray Quantity per 2500

Reel Moisture Sensitivity Level (MSL) Moisture Exposure Floor Life Unlimited@<30C/85% RH Peak Reflow 260°C Rebake Conditions Related Package Documents view documents **DOCUMENTS** Size Revision Date Туре Product Change Notice PCN# : TB1010-01 Remove Country of Origin from Package Bottom 677 KB 11/21/2010 PCN#: TB0910-01 TRACEABILITY MARK ON TOP OF PACKAGE 579 KB 11/12/2009 DISTRIBUTOR INVENTORY Distributor Qty Date RFQ Order 870919BRILF AVNET 01/25/2011 Quote **Buy Now** CONTACTS Sales Offices ➤ Sales Offices and authorized distributors Technical Support Clock Help > WWW: Clock Help