



**Rudolph Sonus 7800**

**Serial NR: 105**

**Vintage 2015**

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Rudolph Technologies has introduced the SONUS Technology for measuring thick films and film stacks used in copper pillar bumps and for detecting defects, such as voids, in through silicon vias (TSVs). Copper pillar bumps are a critical component of many advanced packaging technologies and TSVs provide a means for signals to pass through multiple vertically stacked chips in three dimensional integrated circuits (3DIC). The SONUS Technology is non-contact and nondestructive, and is designed to provide faster, less costly measurements and greater sensitivity to smaller defects than existing alternatives such as X-ray tomography and acoustic microscopy.



## SONUS

ACOUSTIC METROLOGY AND DEFECT DETECTION SYSTEM

<p><b>VOLTAGE RANGE</b> 200-220 VAC</p> <p><b>NUMBER OF PHASES</b> Single Phase + GND</p> <p><b>NUMBER OF WIRES</b> SWS Conductors: (2 + GND) are 5.26 mm<sup>2</sup> (40 Amp Rating) 2-wide &amp; 3-wide EFEM Conductors: (2 + GND) are 13.3 mm<sup>2</sup> (75 Amp Rating)</p> <p><b>RATED FREQUENCY RANGE</b> 50/60 Hz</p> <p><b>RATE FULL LOAD CURRENT</b> 9 Amps SWS 10 Amps 2-Wide EFEM 11 Amps 3-Wide EFEM</p> <p><b>SCCR RATING:</b> 5 kA</p> <p><b>MAXIMUM PNEUMATIC WORKING PRESSURE</b> 620.5 kPa, 6.2 bar (90 PSIG) Usage: 198 LPM (7 SCFM)</p> <p><b>MODEL NUMBER:</b> SONUS 7800</p> <p><b>SERIAL NUMBER:</b> SNS105</p> <p><b>MANUFACTURED DATE:</b> JUNE 2015</p> <p><b>SYSTEM WIRING DIAGRAM:</b> 746274</p> <p><small>Customer Support: 1 (973) 448-4821 techsupport@rudolph-tech.com</small></p>	<p><b>AMPERE RATING OF THE LARGEST MOTOR OR LOAD</b> 7 Amps</p> <p><b>MCB RATE SHORT CIRCUIT INTERRUPTING CAPACITY</b> Breakers Rated for 10,000 AIC</p> <p><b>AMPERE RATING OF THE OVER CURRENT PROTECTION DEVICE</b> 30 Amps SWS 50 Amps 2-wide &amp; 3-wide EFEM If a facilities ELCB is used it must be rated at a minimum of 100 mA</p> <p><b>SYSTEM WEIGHT</b> 2400 lbs (1088 kg) SWS 3700 lbs (1680 kg) 2-wide EFEM 4100 lbs (1835 kg) 3-wide EFEM</p> <p><small>Conforms to 21CFR1040.10 at date of manufacturing</small></p> <p><b>CE Responsible Person</b> European Manager Rudolph Technologies Suite 7, Stuart House Eskmills Business Park Musselburgh EH21 7PB Scotland, U.K</p> <p><b>Manufactured by</b> Rudolph Technologies, Inc. 550 Clark Dr. Budd Lake, NJ 07628 USA</p> <p><b>CE Class 1 Laser Product</b> <small>Supply conductor and machine overcurrent protection provided at machine supply terminals</small></p> <p style="text-align: center;"><b>RUDOLPH</b> TECHNOLOGIES</p>
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