
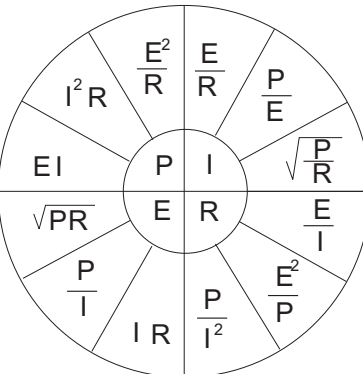


# DO NOT DISTURB!

Automated Calibration is Progress.

# CAUTION!

### Fusing Software with Metrology

 <p><b>CALLAB SOLUTIONS</b> Fusing Software With Metrology</p> <p>Phone : 303.317.6670 Web : <a href="http://www.CalLabSolutions.com">http://www.CalLabSolutions.com</a></p>	<h4>Voltage Conversions</h4> <h5>Sine Wave</h5> <p>RMS = 0.707 x Peak Voltage RMS = 1.11 x Average Voltage RMS = 0.3535 x Peak-to-Peak Voltage Peak = 1.414 x RMS Voltage Peak = 1.57 x Average Voltage Peak-to-Peak = 2.828 x RMS Voltage Average = 0.637 x Peak Voltage Average = 0.9 x RMS Voltage</p>	<h4>Temperature</h4> <p><math>C = (F - 32) * 5/9</math>   <math>F = (C * 9/5) + 32</math></p> <table border="1"> <tr><th>C</th><th>F</th><th>C</th><th>F</th><th>C</th><th>F</th></tr> <tr><td>15.0 ... 59.00</td><td>18.4 ... 65.12</td><td>21.8 ... 71.24</td><td></td><td></td><td></td></tr> <tr><td>15.2 ... 59.36</td><td>18.6 ... 65.48</td><td>22.0 ... 71.60</td><td></td><td></td><td></td></tr> <tr><td>15.4 ... 59.72</td><td>18.8 ... 65.84</td><td>22.2 ... 71.96</td><td></td><td></td><td></td></tr> <tr><td>15.6 ... 60.08</td><td>19.0 ... 66.20</td><td>22.4 ... 72.32</td><td></td><td></td><td></td></tr> <tr><td>15.8 ... 60.44</td><td>19.2 ... 66.56</td><td>22.6 ... 72.68</td><td></td><td></td><td></td></tr> <tr><td>16.0 ... 60.80</td><td>19.4 ... 66.92</td><td>22.8 ... 73.04</td><td></td><td></td><td></td></tr> <tr><td>16.2 ... 61.16</td><td>19.6 ... 67.28</td><td>23.0 ... 73.40</td><td></td><td></td><td></td></tr> <tr><td>16.4 ... 61.52</td><td>19.8 ... 67.64</td><td>23.2 ... 73.76</td><td></td><td></td><td></td></tr> <tr><td>16.6 ... 61.88</td><td>20.0 ... 68.00</td><td>23.4 ... 74.12</td><td></td><td></td><td></td></tr> <tr><td>16.8 ... 62.24</td><td>20.2 ... 68.36</td><td>23.6 ... 74.48</td><td></td><td></td><td></td></tr> <tr><td>17.0 ... 62.60</td><td>20.4 ... 68.72</td><td>23.8 ... 74.84</td><td></td><td></td><td></td></tr> <tr><td>17.2 ... 62.96</td><td>20.6 ... 69.08</td><td>24.0 ... 75.20</td><td></td><td></td><td></td></tr> <tr><td>17.4 ... 63.32</td><td>20.8 ... 69.44</td><td>24.2 ... 75.56</td><td></td><td></td><td></td></tr> <tr><td>17.6 ... 63.68</td><td>21.0 ... 69.80</td><td>24.4 ... 75.92</td><td></td><td></td><td></td></tr> <tr><td>17.8 ... 64.04</td><td>21.2 ... 70.16</td><td>24.6 ... 76.28</td><td></td><td></td><td></td></tr> <tr><td>18.0 ... 64.40</td><td>21.4 ... 70.52</td><td>24.8 ... 76.64</td><td></td><td></td><td></td></tr> <tr><td>18.2 ... 64.76</td><td>21.6 ... 70.88</td><td>25.0 ... 77.00</td><td></td><td></td><td></td></tr> </table>	C	F	C	F	C	F	15.0 ... 59.00	18.4 ... 65.12	21.8 ... 71.24				15.2 ... 59.36	18.6 ... 65.48	22.0 ... 71.60				15.4 ... 59.72	18.8 ... 65.84	22.2 ... 71.96				15.6 ... 60.08	19.0 ... 66.20	22.4 ... 72.32				15.8 ... 60.44	19.2 ... 66.56	22.6 ... 72.68				16.0 ... 60.80	19.4 ... 66.92	22.8 ... 73.04				16.2 ... 61.16	19.6 ... 67.28	23.0 ... 73.40				16.4 ... 61.52	19.8 ... 67.64	23.2 ... 73.76				16.6 ... 61.88	20.0 ... 68.00	23.4 ... 74.12				16.8 ... 62.24	20.2 ... 68.36	23.6 ... 74.48				17.0 ... 62.60	20.4 ... 68.72	23.8 ... 74.84				17.2 ... 62.96	20.6 ... 69.08	24.0 ... 75.20				17.4 ... 63.32	20.8 ... 69.44	24.2 ... 75.56				17.6 ... 63.68	21.0 ... 69.80	24.4 ... 75.92				17.8 ... 64.04	21.2 ... 70.16	24.6 ... 76.28				18.0 ... 64.40	21.4 ... 70.52	24.8 ... 76.64				18.2 ... 64.76	21.6 ... 70.88	25.0 ... 77.00				<h4>Mass</h4> <p>1 pound = 0.45359237 kilograms 1 kilogram = 2.204622621849 pounds 1 ounce = 28.349523125 grams 1 gram = 0.002204622621849 ounces 1 ton = 907.18474 kilograms 1 ounce = 0.9114583333333333 troy ounces</p> <h4>Volume</h4> <p>1 gallon = 3.785411784 liters 1 liter = 0.2641720523582 gallons 1 fluid ounce = 29.5735295625 milliliters 1 milliliter = 0.002083333333333333 fluid ounces</p> <h4>Angle</h4> <p>1 degree = 1.1111111111111111 radians 1 degree = 0.01745329251994 grad 1 grad = 0.0025 degrees 1 grad = 0.01570796326795 radians 1 radians = 57.29577951308 degrees 1 radians = 63.66197723676 grad</p>	<h4>Prefixes</h4> <table border="1"> <tr><td>10e24</td><td>yotta</td><td>Y</td><td>10e-3</td><td>milli</td><td>m</td></tr> <tr><td>10e21</td><td>zetta</td><td>Z</td><td>10e-6</td><td>micro</td><td>μ</td></tr> <tr><td>10e18</td><td>exa</td><td>E</td><td>10e-9</td><td>nano</td><td>n</td></tr> <tr><td>10e15</td><td>peta</td><td>P</td><td>10e-12</td><td>pico</td><td>p</td></tr> <tr><td>10e12</td><td>tera</td><td>T</td><td>10e-15</td><td>femto</td><td>f</td></tr> <tr><td>10e9</td><td>giga</td><td>G</td><td>10e-18</td><td>atto</td><td>a</td></tr> <tr><td>10e6</td><td>mega</td><td>M</td><td>10e-21</td><td>zepto</td><td>z</td></tr> <tr><td>10e3</td><td>kilo</td><td>k</td><td>10e-24</td><td>yocto</td><td>y</td></tr> </table>	10e24	yotta	Y	10e-3	milli	m	10e21	zetta	Z	10e-6	micro	μ	10e18	exa	E	10e-9	nano	n	10e15	peta	P	10e-12	pico	p	10e12	tera	T	10e-15	femto	f	10e9	giga	G	10e-18	atto	a	10e6	mega	M	10e-21	zepto	z	10e3	kilo	k	10e-24	yocto	y
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<h4>Ohms Law</h4> 	<h4>Log\Lin Conversion</h4> <p>dB = 10 log [P2/P1] dB = 20 log [V1/V2] dBm = 10 log [Signal (mW)/1mW] dBmV = 20 log [Signal (mV)/1mV] P = Antilog (dBm/10) mV = Antilog(dBmV/20)</p> <h4>Length</h4> <p>inch = 2.54 centimeters foot = 30.48 centimeters yard = 0.9144 meters</p> <h4>Pressure</h4> <p>PSI = 0.0689475 Bar PSI = 0.03613 Inches Water PSI = 0.4912 Inches Mercury</p>	<h4>Torque</h4> <p>Foot Pound = 1.356 Newton Meters Foot Pound = 12 Inch Pounds Inch Pound = 0.112985 Newton Meter Inch Pound = 0.08333 Foot Pounds</p> <h4>Time &amp; Frequency</h4> <p>Frequency = 1/Period Period = 1/Frequency</p>	<h4>Total Harmonic Distortion</h4> $THD = 20 * \text{Log} \left[ \frac{\sqrt{V_2^2 + V_3^2 + \dots + V_x^2}}{V_1} \right]$ $THD = 10 * \text{Log} \left[ \frac{P_2^2 + P_3^2 + \dots + P_x^2}{P_1} \right]$	<h4>SI Units</h4> <table border="1"> <tr><td>length</td><td>metre (meter)</td><td>m</td></tr> <tr><td>mass</td><td>kilogram</td><td>kg</td></tr> <tr><td>time</td><td>second</td><td>s</td></tr> <tr><td>electric current</td><td>ampere</td><td>A</td></tr> <tr><td>thermodynamic</td><td>kelvin</td><td>K</td></tr> <tr><td>substance</td><td>mole</td><td>mol</td></tr> <tr><td>luminous intensity</td><td>candela</td><td>cd</td></tr> </table> <h4>Sigma Conversion Table</h4> <table border="1"> <tr><th>Yield</th><th>Sigma</th><th>Defects / Million</th></tr> <tr><td>99.9997%</td><td>6.00</td><td>3.4</td></tr> <tr><td>99.9770%</td><td>5.00</td><td>230</td></tr> <tr><td>99.3790%</td><td>4.00</td><td>6,210</td></tr> <tr><td>93.3200%</td><td>3.00</td><td>66,800</td></tr> <tr><td>69.2000%</td><td>2.00</td><td>380,000</td></tr> <tr><td>31.0000%</td><td>1.00</td><td>690,000</td></tr> </table>	length	metre (meter)	m	mass	kilogram	kg	time	second	s	electric current	ampere	A	thermodynamic	kelvin	K	substance	mole	mol	luminous intensity	candela	cd	Yield	Sigma	Defects / Million	99.9997%	6.00	3.4	99.9770%	5.00	230	99.3790%	4.00	6,210	93.3200%	3.00	66,800	69.2000%	2.00	380,000	31.0000%	1.00	690,000																																																																																																																		
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