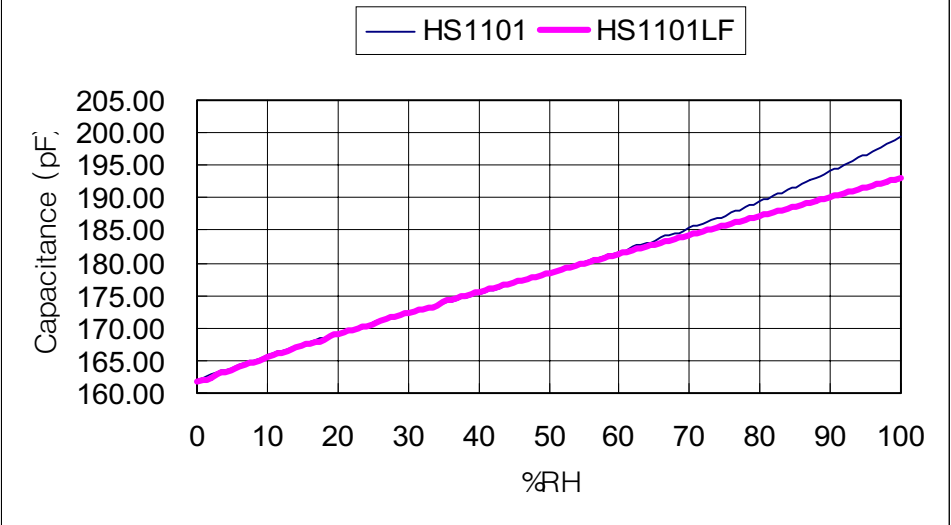
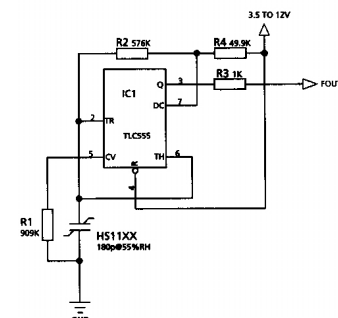
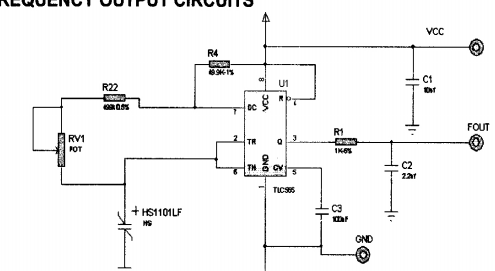


HS1101(HTS2010) and HS1101LF(HTS2030) Characteristic Comparison

No.	Description	HS1101(HTS2010)	HS1101LF(HTS2030)																																				
1	Operating Temperature	-40 to 100 °C	-60 to 140 °C																																				
2	Temperature Coefficient (Typ.)	0.04pF/°C (0.1%RH/°C)	0.01pF/°C (0.03%RH/°C)																																				
3	Humidity Hysteresis	+/-1.5%RH	+/-1.0%RH																																				
4	Response Time (Typ.) 33 to 75%RH	5 Sec	3 Sec																																				
5	Typical Response Curve in Humidity	 <table border="1"> <caption>Typical Response Curve in Humidity Data</caption> <thead> <tr> <th>%RH</th> <th>HS1101 Capacitance (pF)</th> <th>HS1101LF Capacitance (pF)</th> </tr> </thead> <tbody> <tr><td>0</td><td>162.00</td><td>162.00</td></tr> <tr><td>10</td><td>166.00</td><td>166.00</td></tr> <tr><td>20</td><td>170.00</td><td>170.00</td></tr> <tr><td>30</td><td>174.00</td><td>174.00</td></tr> <tr><td>40</td><td>178.00</td><td>178.00</td></tr> <tr><td>50</td><td>182.00</td><td>182.00</td></tr> <tr><td>60</td><td>186.00</td><td>186.00</td></tr> <tr><td>70</td><td>190.00</td><td>190.00</td></tr> <tr><td>80</td><td>194.00</td><td>194.00</td></tr> <tr><td>90</td><td>198.00</td><td>198.00</td></tr> <tr><td>100</td><td>200.00</td><td>192.00</td></tr> </tbody> </table>		%RH	HS1101 Capacitance (pF)	HS1101LF Capacitance (pF)	0	162.00	162.00	10	166.00	166.00	20	170.00	170.00	30	174.00	174.00	40	178.00	178.00	50	182.00	182.00	60	186.00	186.00	70	190.00	190.00	80	194.00	194.00	90	198.00	198.00	100	200.00	192.00
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HS1101(HTS2010) and HS1101LF(HTS2030) Characteristic Comparison

No.	Description	HS1101(HTS2010)	HS1101LF(HTS2030)																																																
6	Application Circuit	 <p style="text-align: center;">TLC555 Timer IC pin 5(CV) : 909kΩ(R1)</p>	<p style="text-align: center;">FREQUENCY OUTPUT CIRCUITS</p>  <p style="text-align: center;">TLC555 Timer IC pin 5(CV) : 100nF(C3)</p> <p style="font-size: small;">Note: R2=499kΩ / R4=49.9kΩ / R1=1 kΩ / RV1=50 kΩ potentiometer / C1=10nF / C2=2.2nF / C3=100nF</p>																																																
7	Humidity vs Frequency Output	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="text-align: center;">%RH</td> <td style="text-align: center;">10</td> <td style="text-align: center;">20</td> <td style="text-align: center;">30</td> <td style="text-align: center;">40</td> <td style="text-align: center;">50</td> </tr> <tr> <td style="text-align: center;">Freq. (Hz)</td> <td style="text-align: center;">7224</td> <td style="text-align: center;">7100</td> <td style="text-align: center;">6976</td> <td style="text-align: center;">6853</td> <td style="text-align: center;">6728</td> </tr> <tr> <td style="text-align: center;">%RH</td> <td style="text-align: center;">60</td> <td style="text-align: center;">70</td> <td style="text-align: center;">80</td> <td style="text-align: center;">90</td> <td style="text-align: center;">95</td> </tr> <tr> <td style="text-align: center;">Freq. (Hz)</td> <td style="text-align: center;">6600</td> <td style="text-align: center;">6468</td> <td style="text-align: center;">6330</td> <td style="text-align: center;">6186</td> <td style="text-align: center;">6110</td> </tr> </table> <p style="text-align: center;">Calibration : 6660Hz@55%RH, 25 °C, 5Vdc</p>	%RH	10	20	30	40	50	Freq. (Hz)	7224	7100	6976	6853	6728	%RH	60	70	80	90	95	Freq. (Hz)	6600	6468	6330	6186	6110	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="text-align: center;">%RH</td> <td style="text-align: center;">10</td> <td style="text-align: center;">20</td> <td style="text-align: center;">30</td> <td style="text-align: center;">40</td> <td style="text-align: center;">50</td> </tr> <tr> <td style="text-align: center;">Freq. (Hz)</td> <td style="text-align: center;">7155</td> <td style="text-align: center;">7010</td> <td style="text-align: center;">6880</td> <td style="text-align: center;">6760</td> <td style="text-align: center;">6650</td> </tr> <tr> <td style="text-align: center;">%RH</td> <td style="text-align: center;">60</td> <td style="text-align: center;">70</td> <td style="text-align: center;">80</td> <td style="text-align: center;">90</td> <td style="text-align: center;">95</td> </tr> <tr> <td style="text-align: center;">Freq. (Hz)</td> <td style="text-align: center;">6550</td> <td style="text-align: center;">6450</td> <td style="text-align: center;">6355</td> <td style="text-align: center;">6260</td> <td style="text-align: center;">6210</td> </tr> </table> <p style="text-align: center;">Calibration : 6600Hz@55%RH, 25 °C, 5Vdc</p>	%RH	10	20	30	40	50	Freq. (Hz)	7155	7010	6880	6760	6650	%RH	60	70	80	90	95	Freq. (Hz)	6550	6450	6355	6260	6210
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8	Cap Color	Grey(Black)	Black(Black)																																																
9	Pb Free Soldering	×	○ Meets RoHS regulations																																																
10	Free from Pb, Cr(6+), Cd and Hg	○	○																																																