

Temperature test report

(1) Temperature Test



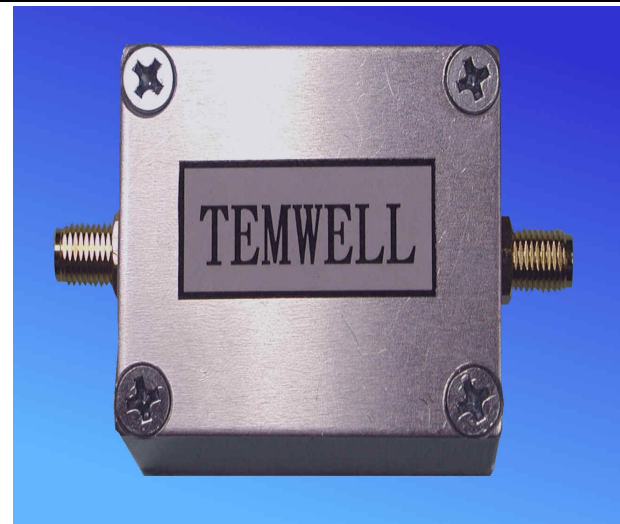
Testing Organization:
Temwell Corporation



Testing Machine:
Temperature & Humidity Tester Chamber
THS-A4C-100 STD

Testing Specification:
Operation Temperature: - 30°C ~ + 70°C
Storage Temperature: - 30°C ~ + 80°C

(2) Test subject:



Item:
TM Module Band Pass Filter F connector
1. TM-TTL6755D-129.5MF
2. TM-TTL67450F-836.5MF
3. TM-TTL67451F-881.5MF

Require:
Operation Temperature: - 30°C ~ + 70°C
Storage Temperature: - 30°C ~ + 80°C

(3) Testing and test result:

Part number 1

TM-TTL6755D-129.5MF

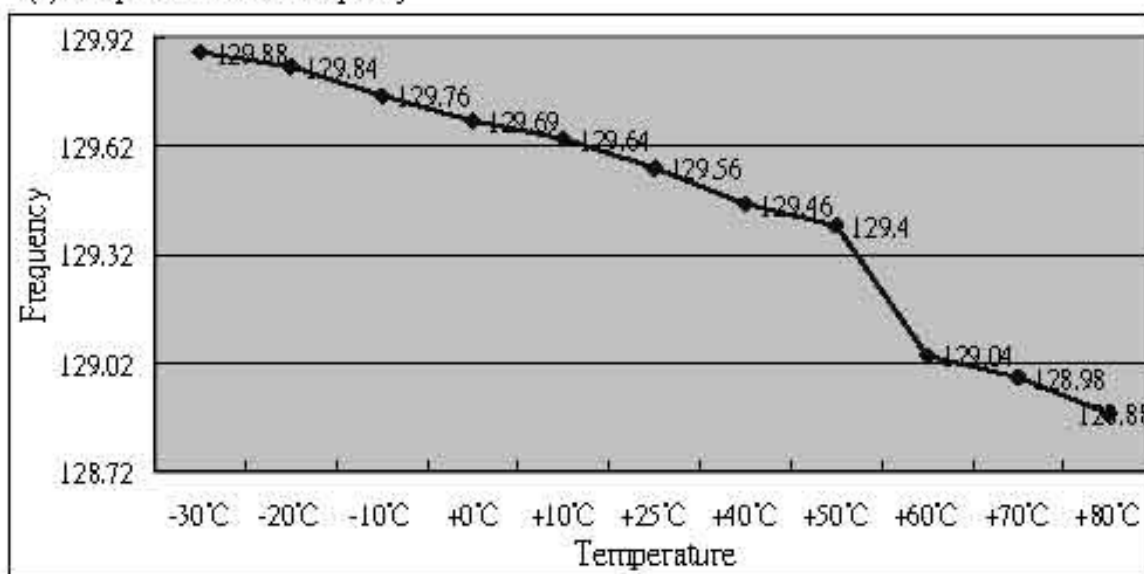
溫度槽測試報告 (Temperature Aging Test Report)

Parts Name : TM-TTL6755D-129.5MF (A) (Triple Tuning) Date : FEB.2.2005

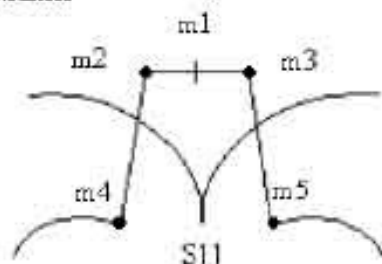
(1) Temperature & Time Process & Fo Frequency

	Temp ℃	Time Age Hour	$\Delta f(\%)$ (MHz) Temp. Drift(-30~+80℃) < Fo × 0.5% (Tolerance)	Fo MHz	At -3dB MHz	At -3dB MHz	-3BW MHz	IL (dB)	R.L. S11 (dB)	Atten. Fo-10M (dB)	Atten. Fo+10M (dB)
f1	-30℃	1.5H	0.246%(0.32M)	129.88	132.80	126.96	5.84	3.29	20.17	33.87	27.50
f2	-20℃	0.5H	0.262%(0.34M)	129.84	132.76	126.92	5.84	3.39	20.18	33.76	27.63
f3	-10℃	0.5H	0.154%(0.20M)	129.76	132.68	126.85	5.83	3.45	20.21	33.61	27.83
f4	+0℃	0.5H	0.100%(0.13M)	129.69	132.62	126.76	5.86	3.64	20.08	33.42	28.02
f5	+10℃	0.5H	0.061%(0.08M)	129.64	132.56	126.73	5.83	3.76	19.88	33.28	28.19
f6	+25℃	0.5H	0.000%(0.00M)	129.56	132.46	126.66	5.80	3.93	19.70	33.01	28.41
f7	+40℃	0.5H	0.061%(0.08M)	129.46	132.36	126.57	5.79	4.11	19.66	32.77	28.68
f8	+50℃	0.5H	0.123%(0.16M)	129.40	132.30	126.51	5.79	4.26	19.41	32.59	28.82
f9	+60℃	0.5H	0.401%(0.52M)	129.04	131.94	126.15	5.79	4.76	17.89	31.56	29.87
f10	+70℃	0.5H	0.447%(0.58M)	128.98	131.88	126.09	5.49	4.89	17.43	31.38	30.04
f11	+80℃	0.5H	0.524%(0.68M)	128.88	131.78	125.99	5.79	5.04	16.83	31.07	30.30

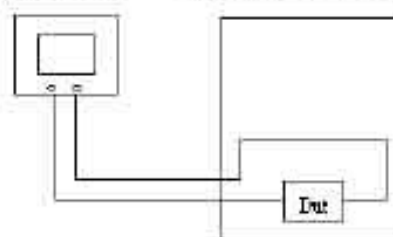
(2) Temperature VS Fo Frequency



(3) Makers



(4) HP-8714E Temperature Chamber



Result

PASS

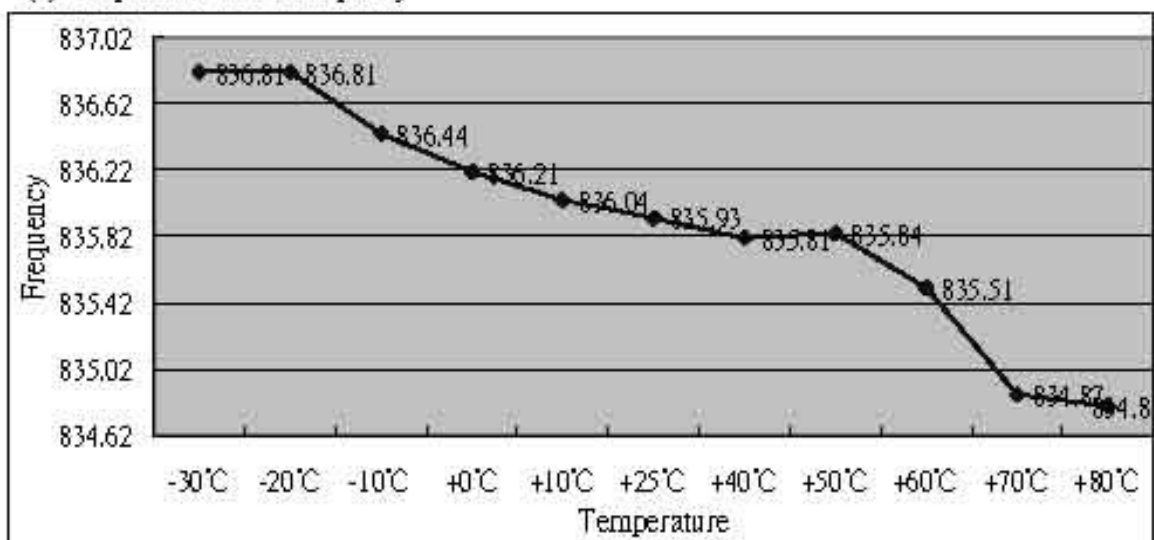
溫度槽測試報告 (Temperature Aging Test Report)

Parts Name : TM-TTL67450F-836.5MF (B) (Triple Tuning) Date : FEB.14.2005

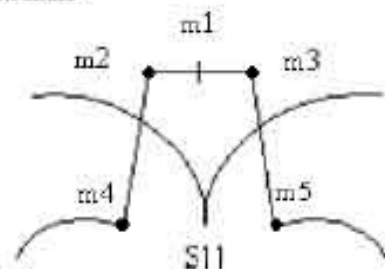
(1) Temperature & Time Process & Fo Frequency

	Temp ℃	Time Age Hour	$\Delta f(\%)$ (MHz) Temp. Draft(-30~+80 ℃) < Fo×0.5% (Tolerance)	Fo MHz	At -3dB MHz	At -3dB MHz	-3BW MHz	IL (dB)	R.L. S11 (dB)	Atten. Fo-50M (dB)	Atten. Fo+50M (dB)
f1	-30℃	1.5H	0.105%(0.88M)	836.81	855.43	818.19	37.24	0.80	33.51	25.83	27.30
f2	-20℃	0.5H	0.105%(0.88M)	836.81	855.43	818.19	37.24	0.88	31.77	25.79	27.46
f3	-10℃	0.5H	0.061%(0.51M)	836.44	854.96	817.92	37.04	0.98	32.42	25.77	27.66
f4	+0℃	0.5H	0.033%(0.28M)	836.21	854.63	817.79	36.84	1.12	28.44	25.81	27.82
f5	+10℃	0.5H	0.013%(0.11M)	836.04	854.43	817.65	36.78	1.24	28.23	25.93	28.06
f6	+25℃	0.5H	0.000%(0.00M)	835.93	854.16	817.70	36.46	1.48	27.88	25.94	28.29
f7	+40℃	0.5H	0.014%(0.12M)	835.81	854.03	817.59	36.44	1.56	25.94	26.11	28.64
f8	+50℃	0.5H	0.010%(0.09M)	835.84	854.03	817.65	36.38	1.70	23.52	26.26	28.77
f9	+60℃	0.5H	0.050%(0.42M)	835.51	853.63	817.39	36.24	1.91	25.68	26.22	29.41
f10	+70℃	0.5H	0.126%(1.06M)	834.87	852.96	816.79	36.17	1.93	20.20	26.09	29.88
f11	+80℃	0.5H	0.135%(1.13M)	834.80	852.96	816.65	36.31	2.00	19.43	26.07	29.97

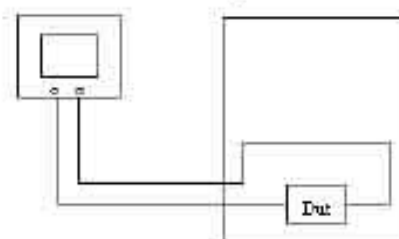
(2) Temperature VS Fo Frequency



(3) Makers



(4) HP-8714E Temperature Chamber



Result

PASS

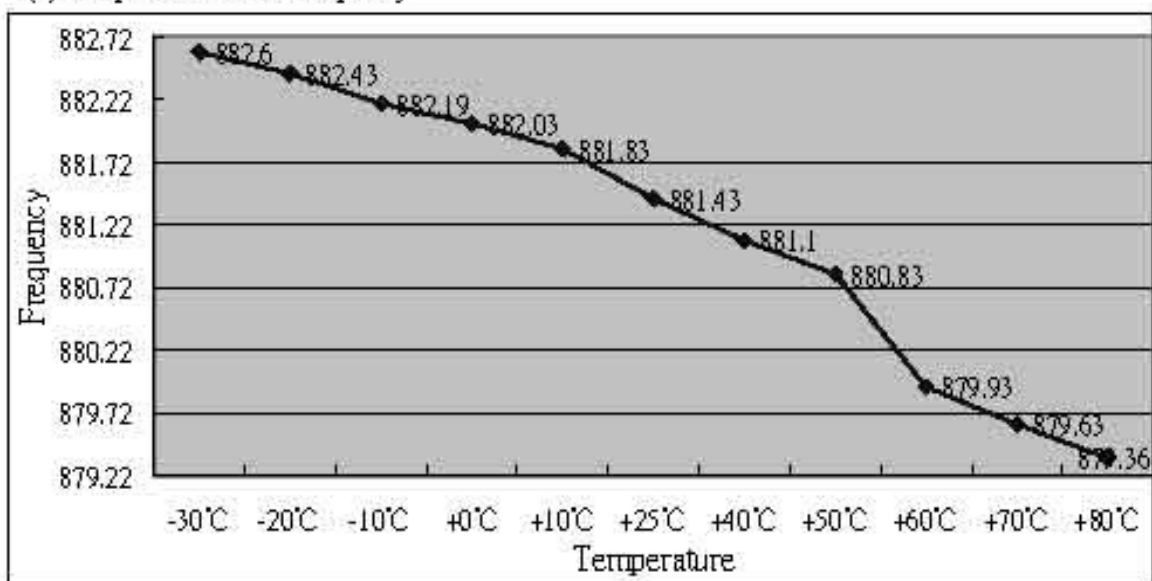
溫度槽測試報告 (Temperature Aging Test Report)

Parts Name : TM-TTL67451F-881.5MF (A) (Triple Tuning) Date : FEB.1.2005

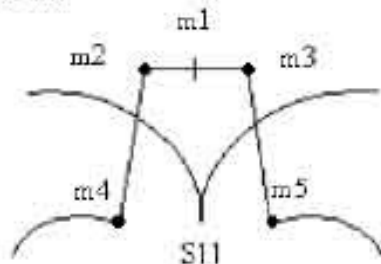
(1) Temperature & Time Process & Fo Frequency

	Temp °C	Time Age Hour	Δf (%)(MHz)	Fo MHz	At -3dB MHz	At -3dB MHz	-3BW MHz	IL (dB)	R.L. S11 (dB)	Atten. Fo-50M (dB)	Atten. Fo+50M (dB)
f1	-30°C	1.5H	0.132%(1.17M)	882.60	899.50	865.70	33.80	0.82	18.80	25.59	35.25
f2	-20°C	0.5H	0.113%(1.00M)	882.43	899.30	865.56	33.74	0.93	18.54	25.80	35.30
f3	-10°C	0.5H	0.086%(0.76M)	882.19	899.03	865.36	33.67	1.06	18.23	25.89	35.14
f4	+0°C	0.5H	0.068%(0.60M)	882.03	898.83	865.23	33.60	1.16	18.57	26.25	35.05
f5	+10°C	0.5H	0.045%(0.40M)	881.83	898.63	865.03	33.60	1.34	18.34	26.44	35.12
f6	+25°C	0.5H	0.000%(0.00M)	881.43	898.23	864.63	33.60	1.55	18.40	26.83	35.02
f7	+40°C	0.5H	0.037%(0.33M)	881.10	897.90	864.30	33.60	1.74	18.14	27.24	35.06
f8	+50°C	0.5H	0.068%(0.60M)	880.83	897.70	863.96	33.74	1.84	18.17	27.57	35.08
f9	+60°C	0.5H	0.170%(1.50M)	879.93	896.90	862.96	33.94	2.13	17.57	28.34	34.62
f10	+70°C	0.5H	0.204%(1.80M)	879.63	896.63	862.63	33.94	2.22	17.42	28.72	34.54
f11	+80°C	0.5H	0.234%(2.07M)	879.36	896.50	862.23	34.27	2.34	17.24	29.02	34.50

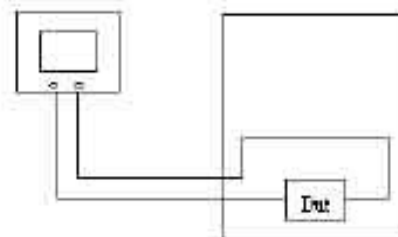
(2) Temperature VS Fo Frequency



(3) Makers



(4) HP-8714E Temperature Chamber



Result

PASS