

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:
Helical Band Pass Filter 5W2 Series
1. TDW2515B-864M
2. TDW2437B-434M

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

(3) Testing and test result:

Part number 1	TDW2515B-864M
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溫度槽測試報告 (Temperature Aging Test Report)

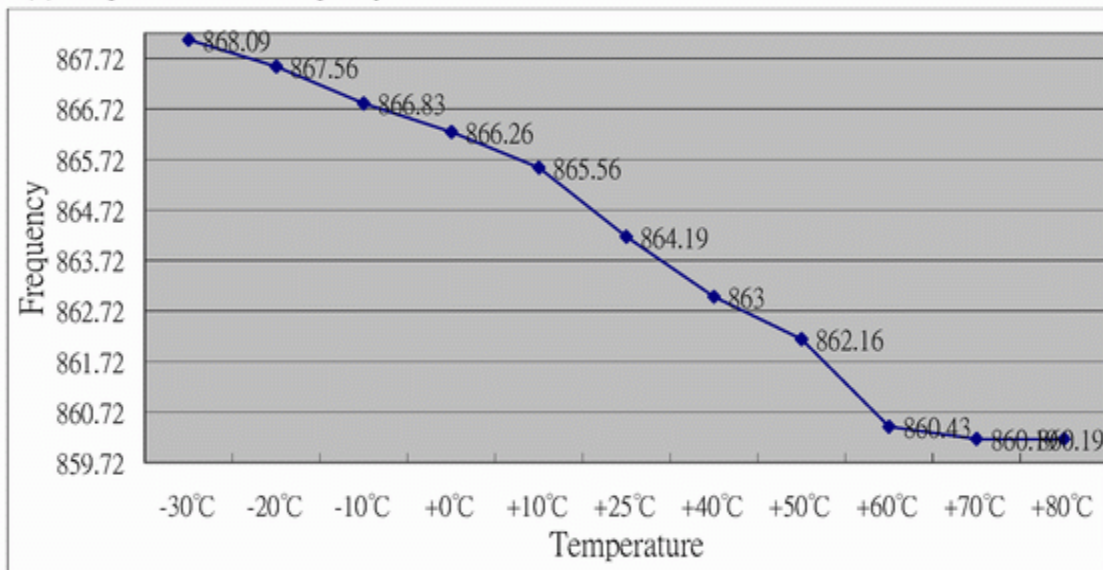
Parts Name : TDW2515B-864M(A) (Double Tuning)

Date : JAN.26.2005

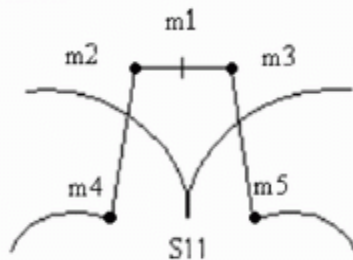
(1) Temperature & Time Process & Fo Frequency

	Temp °C	Time Age Hour	$\Delta f(\%)(\text{MHz})$	Fo MHz	At -3dB MHz	At -3dB MHz	-3BW MHz	IL (dB)	S11 (dB)	Atten. Fo-50M (dB)	Atten. Fo+50M (dB)
			Temp. Draft (-30~+70°C) < Fo×0.5% (Tolerance)								
f1	-30°C	1.5H	0.451%(3.90M)	868.09	880.06	856.13	23.93	1.39	18.01	27.58	20.33
f2	-20°C	0.5H	0.389%(3.37M)	867.56	879.53	855.60	23.93	1.44	17.99	27.40	20.61
f3	-10°C	0.5H	0.305%(2.64M)	866.83	878.86	854.80	24.06	1.51	18.88	27.08	20.86
f4	+0°C	0.5H	0.239%(2.07M)	866.26	878.20	854.33	23.87	1.59	18.88	26.91	21.04
f5	+10°C	0.5H	0.158%(1.37M)	865.56	877.53	853.60	23.93	1.66	19.11	26.66	21.29
f6	+25°C	0.5H	0.000%(0.00M)	864.19	876.26	852.13	24.13	1.82	19.72	26.18	21.72
f7	+40°C	0.5H	0.137%(1.19M)	863.00	875.00	851.00	24.00	1.91	19.75	25.72	22.19
f8	+50°C	0.5H	0.234%(2.03M)	862.16	874.13	850.20	23.93	1.97	19.80	25.33	22.48
f9	+60°C	0.5H	0.435%(3.76M)	860.43	872.53	848.33	24.20	2.32	21.03	24.69	23.04
f10	+70°C	0.5H	0.462%(4.00M)	860.19	872.26	848.13	24.13	2.39	21.70	24.59	23.10
f11	+80°C	0.5H	0.462%(4.00M)	860.19	872.33	848.06	24.27	2.41	21.12	24.55	23.09

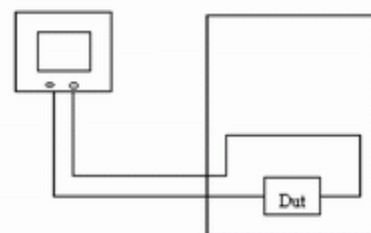
(2) Temperature VS Fo Frequency



(3) Makers



(4) HP-8714E Temperature Chamber



Result

PASS

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

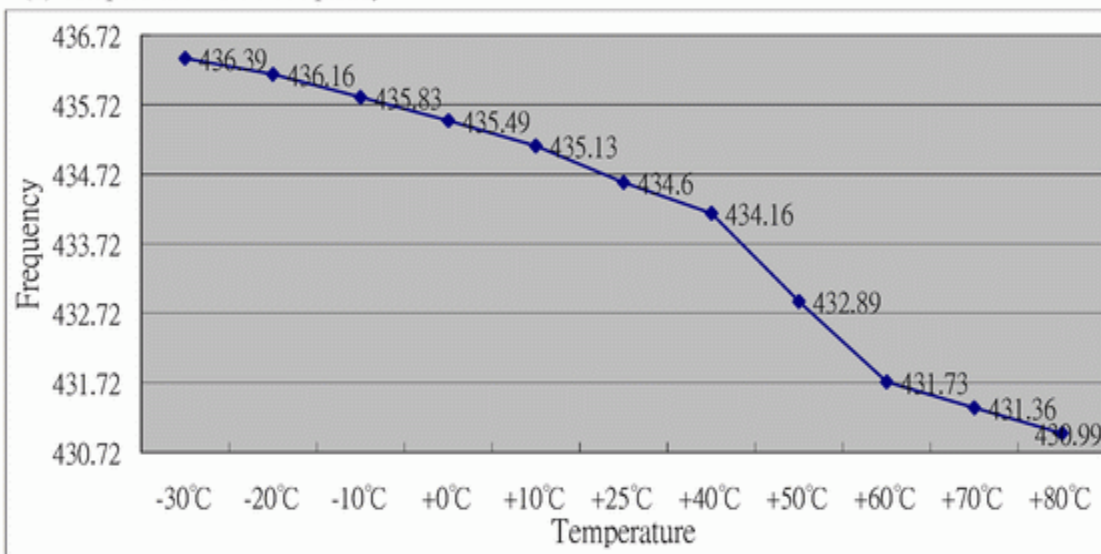
Parts Name : TDW2437B-434M(B) (Double Tuning)

Date : JAN.28.2005

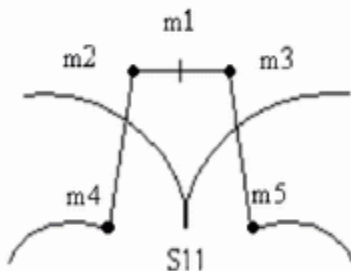
(1) Temperature & Time Process & Fo Frequency

	Temp °C	Time Age Hour	Δf (%)(MHz)	Fo MHz	At -3dB MHz	At -3dB MHz	-3BW MHz	IL (dB)	S11 (dB)	Atten. Fo-60M (dB)	Atten. Fo+60M (dB)
f1	-30°C	1.5H	0.411%(1.79M)	436.39	447.66	425.13	22.53	1.50	17.25	26.69	31.97
f2	-20°C	0.5H	0.358%(1.56M)	436.16	447.40	424.93	22.47	1.57	17.79	26.67	31.08
f3	-10°C	0.5H	0.283%(1.23M)	435.83	447.06	424.60	22.46	1.66	18.42	26.62	32.28
f4	+0°C	0.5H	0.204%(0.89M)	435.49	446.73	424.26	22.47	1.75	19.02	26.55	32.47
f5	+10°C	0.5H	0.124%(0.53M)	435.13	446.40	423.86	22.54	1.85	18.98	26.52	32.67
f6	+25°C	0.5H	0.000%(0.00M)	434.60	445.80	423.40	22.40	1.98	18.68	26.37	32.95
f7	+40°C	0.5H	0.101%(0.44M)	434.16	445.40	422.93	22.47	2.11	19.47	26.30	33.16
f8	+50°C	0.5H	0.393%(1.71M)	432.89	444.13	421.66	22.47	2.18	16.95	26.01	33.86
f9	+60°C	0.5H	0.660%(2.87M)	431.73	442.93	420.53	22.40	2.40	16.60	25.77	34.37
f10	+70°C	0.5H	0.745%(3.24M)	431.36	442.60	420.13	22.47	2.49	16.77	25.68	34.50
f11	+80°C	0.5H	0.830%(3.61M)	430.99	442.26	419.73	22.53	2.61	16.62	25.57	34.64

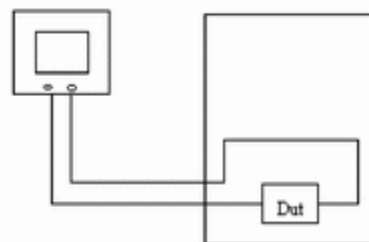
(2) Temperature VS Fo Frequency



(3) Makers



(4) HP-8714E Temperature Chamber



Result

PASS