

P9CFMT-25
TEST REPORT FOR FM TRANSLATOR

Serial No: demo #1
 Receive Freq: 98.0 MHz

Baseband Outputs RF Level = 1mV 75kHz Deviation De-emphasis Off

Audio Frequency	Distortion	Stereo Separation	Mono/Stereo
40Hz	0.09%	50dB	62dB
100Hz	0.09%	57dB	62dB
500Hz	0.09%	60dB	62dB
1000Hz	0.09%	60dB	61dB
5000Hz	0.18%	58dB	54dB
15000Hz	0.17%	58dB	45dB

RF Sensitivity 75kHz Deviation De-emphasis 75uS

RF Level	S/N Ratio	S/N Ratio (Mono)
50uV	54dB	71dB
100uV	60dB	75dB
200uV	66dB	76dB
500uV	71dB	76dB
1mV	75dB	76dB

Dynamic Selectivity (Stereo)	Unwanted Signal Ref. 75kHz Deviation	1kHz Audio
	Unwanted Signal 40kHz Deviation	400Hz Audio

Frequency Offset	Interfering Ratio
f-400kHz	45dB
f-300kHz	35dB
f-200kHz	9dB
f-100kHz	(-)30dB
Co-Channel	(-)41dB
f+100kHz	(-)30dB
f+200kHz	6dB
f+300kHz	30dB
f+400kHz	44dB
f-21.4 MHz	45dB (Image)

LO Leakage (-)65dBm At RF Input
 (f-10.7 MHz)

ALC Threshold 2mV (Pin Attenuator)

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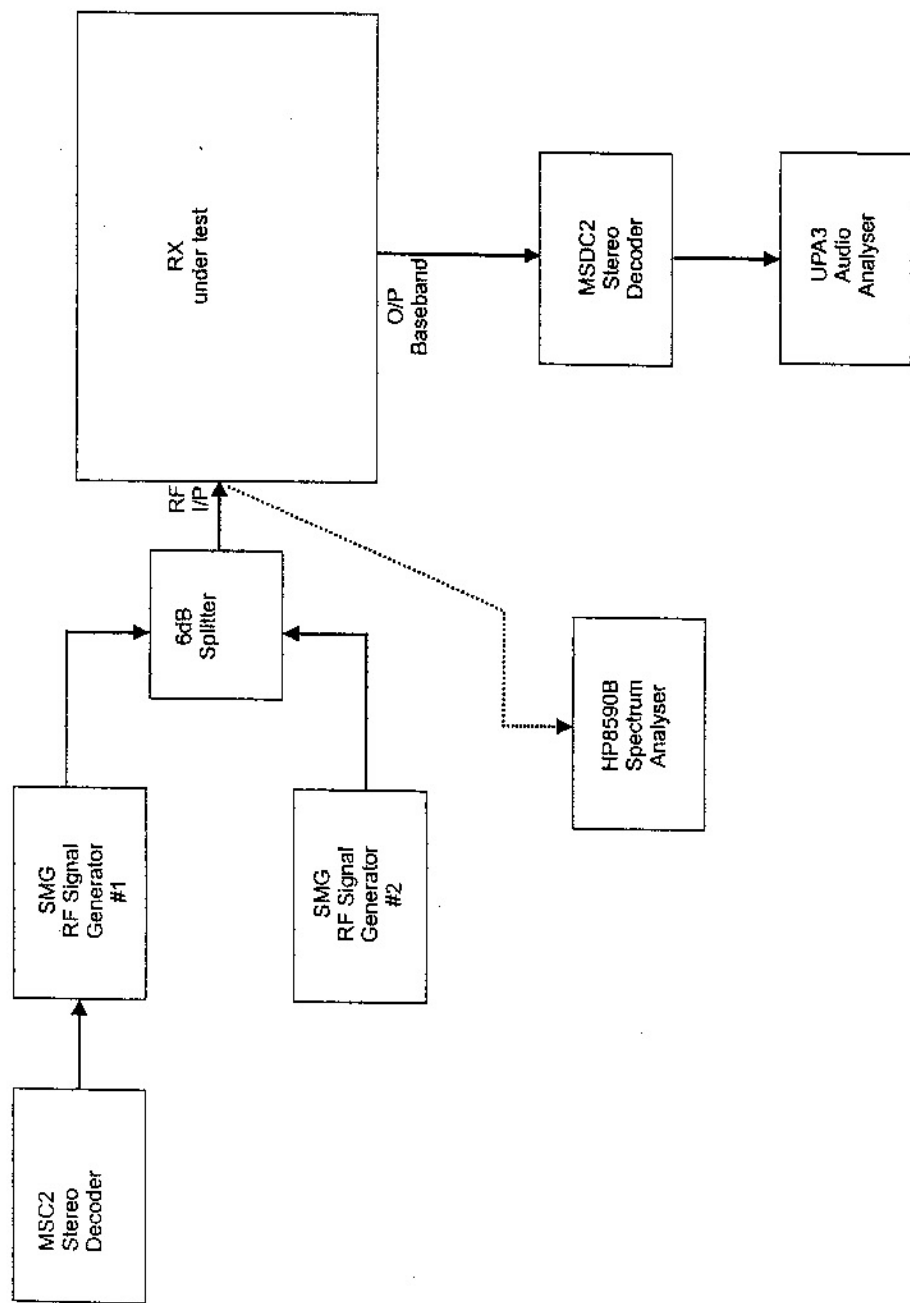
RF Performance Test at Ambient Temperature +27°C

Power Output Rating	Results
Measured Power at 88.1 MHz	24.9 Watts
Measured Power at 98.1 MHz	25.1 Watts
Measured Power at 107.9 MHz	24.0 Watts

Output Power Adjustment	Results (Watts)	
	Minimum	Maximum
Manual Power Adjustment at 88.1 MHz	0.10 Watt	25.3 Watts
Manual Power Adjustment at 98.1 MHz	0.85 Watt	27.6 Watts
Manual Power Adjustment at 107.9 MHz	0.60 Watt	26.5 Watts

Frequency Tolerance
Carrier Frequency: 98.0 MHz

AC Voltage Variance	Results
100% Nominal	98.00054 MHz
85% Nominal	98.00055 MHz
115% Nominal	98.00054 MHz



Test Setup For FMT-25 FM Translator

P9CFMT-25
 Technical Data for FCC Certification
 Frequency Drift vs. Temperature
 74.1250

DEGREES C	MEASURED FREQ. (MHz)	DEVIATION(Hz)	DEVIATION(%)
-30°	98.099983	+61	+0.00006
-20°	98.099973	+51	+0.00005
-10°	98.099931	+9	+0.00001
0°	98.099901	-21	-0.00002
+10°	98.099898	-24	-0.00002
+20°	98.099907	-15	-0.00002
+30°	98.099923	+1	+0.00000
+40°	98.099903	-19	-0.00002
+50°	98.099874	-48	-0.00005

Note: At each temperature level, the temperature was maintained for the duration of one hour, than the frequency reading was recorded.