

SPECIFICATION

MODULATOR

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1.GENERAL SPECIFICATION

2.STANDARD TEST CONDITION

3.ELECTRICAL SPECIFICATION

NO.	ITEM	SPECIFICATION				
1.	GENERAL SPECIFICATION OUTPUT FREQ RANGE	2400MHz ~ 2483MHz				
2.	STANDARD TEST CONDITION	+9VDC 50mA				
3.	ELECTRICAL SPECIFICATION	CONDITION	MIN.	TYP.	MAX.	
3-1.	CHANNEL SELECT	CH1	2416	2420	2424	MHz
		CH2	2456	2460	2464	
3-1-1.	9V POWER CURRENT (5V OUT OFF)			35	38	mA
3-1-2.	5V OUT CURRENT				40	mA

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3-2. ELECTRICAL PERFORMANCE

	PARAMETER	SPECIFICATION			UNIT	REMARK
		MIN	TYP	MAX		
3-2-1.	INPUT IMPEDANCE		1.3		K	MEASURE AT 0.5-5MHZ
3-2-2.	INPUT SIGNAL LEVEL		2.5		V _{p-p}	LOAD OF 82Ω CONNECTED NEGATIVE SYNCHRONOUS
3-2-3.	MODULATION F _p 2420MHz (SINE WAVE 1KHz 2.5V _{p-p})	2	3	4	MHz	SUPERIMPOSED SINUOUS WAVE (3.58MHz) IS 20% OF THE STEP INPUT LEVEL. MEASURE UNDER THE APL OF 10-90% DIFFERENTIAL GAIN OF DEMULATOR UNIT IS TO BE COMPENSATED.
3-2-4.	DIFFERENTIAL GAIN	-8		8	%	
3-2-5.	DIFFERENTIAL PHASE	-8		8	DEG	-DITTO-
3-2-6.	S/N	45			dB	MEASURE MITH RESPECT TO STANDARD DEMODULA- TOR OUTPUT.

3-3 AUDIO SYSTEM CHARACTERISTICS

3-3-1.	INPUT IMPEDANCE		1.4		K Ω	MEASURE AT 0.1-10KHZ
3-3-2.	MODULATION	70	80	90	KHZ	1 V _{P-P} IN
3-3-3.	DISTORTION FACTOR			3	%	AUDIO INPUT SIGNAL: 1.0V _{P-P} 1KHZ MODULA- TION 50% (SINE WAVE) VIDEO INPUT SIGNAL: ALL BLACK (SYNC.ONLY) USE STANDARD DEMODU- LATOR OF INTER-CARRIER SYSTEM. DE-EMPHASIS(50 usec) IS ON.
3-3-4.	S/N	40			dB	

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3-4. OUTPUT SYSTEM CHARACTERISTICS

	PARAMETER	SPECIFICATION			UNIT	REMARK
		MIN	TYP	MAX		
3-4-1.	VIDEO OUTPUT LEVEL	86	90	94	dBuV	TEST AT 25°C TEMPERATURE AND 65%RH OF HUMIDITY.
3-4-2.	AUDIO OUTPUT LEVEL DIFFERENCE(P/S RATIO)	20	25	30	dBc	Fp 2400~2483MHZ Fs 6.5MHZ *OUTPUT CHANNEL
3-4-3.	AUDIO CARRIER FREQUENCY	-10	fs	+10	KHZ	INPUT SIGNAL : NONE THE MEASUREMENT IS TAKEN AFTER 30 sec. FROM THE POWER-ON.
3-4-5.	OUT-BAND SPURIOUS IN-BAND SPURIOUS WITHIN BANDWIDTH	45 50	50		dB dB	MEASUREMENT DIFFERENCE VIDEO OF CARRIER FREQUENCY OUTPUT LEVEL FOR 2400~2483MHZ EXCEPT TO fp. fp+/-fs AGAINST VIDEO CARRIER OUTPUT LEVEL.
3-4-6.	OUTPUT IMPEDANCE		75		Ω	UNBALANCED

