SHARP

5.ELECTRICAL SPECIFICATIONS

No.	Item			Specification Min	Typ	Max	Unit	Condition
5-1	Noise figure				8	15	dB	
5-2	Image rejection			30	40		dB	
5-3	Input VSWR				2	3		
5-4	Drift of local oscillation frequency				±8		MHz	25℃ ± 25℃
5-5	Intermodulation rejection			40	60		dB	Input level -35dBm Desired signal Fo Undesired signal (2 signals) (Fo+29.5MHz,Fo+59MHz) (Fo-29.5MHz,Fo-59MHz)
5-6	Local oscillation signal leak at input terminal					-63	dBm	950~1750MHz
						-50	dBm	1750~2529.5MHz
5-7	Output level			0.7	1.0	1.3	Vpp	1MΩ load deviation 21.5MHzpp *1,2
5-8	Frequency response					±0.7	dB	50Hz~4.2MHz
						±2	dB	4.2MHz~8.5MHz (reference:100KHz) *2
5-9	DG				2	5	Zpp	Video circuit for measurment is connected APL=50% *2
5-10	DP				2	5	degree pp	
5-11	SN(C/N=14dB)			40			dB	Video circuit for measurment is connected 100Hz~4.2MHz *2 FM deviation 21.5MHzpp
5-12	Static threshold				6	8	dB	
5-13	Current consumption		B2		210	290	mA	
			SWA,SWB		35	50	mA	
			TUN			50	μA	
			BW		4	7	mA	
			LT		7	15	mA	
5-14	Prescaler output level			0.6	1.2		Vpp	Output terminal 1Mohm load
5-15	Input Isolation			30			dB	950~2050MHz
5-16	RF Input Select Voltage	Input A	SWA	4.7	5.0	5.3	V	
			SWB	0		0.3		
		Input B	SWA	0		0.3		
			SWB	4.7	5.0	5.3		
5-17	BW Select Voltage	BW=27MHz		0		0.3	V	
		BW=18MHz		4.7	5.0	5.3		
5-18	AGC Output Voltage	-30dBm		3.2	3.4	3.6	V	RF=1050MHz
		-60dBm		2.4	2.9	3.4	V	

*1 Refer to figure 3
*2 BW=27MHz