

SHARP

Description: This specification covers DBS Tuner with FM demodulator intended for use in Satellite Receiver

1. GENERAL SPECIFICATIONS

1-1	Receiving frequency range	950 MHz to 2050 MHz
1-2	Input level	-65dBm ~ -30dBm with 12 Carriers
1-3	Nominal input impedance	75 ohm
1-4	Intermediate frequency	479.5 MHz
1-5	Channel selection system	Electronic tuning for Frequency Synthesizer
1-6	Operating voltage	
	Supply voltage (B2)	5.0V \pm 0.3V DC
	ODU Power (B1A), (B1B)	25V, 350mA max.
	(SWA), (SWB), (BW)	5.0V \pm 0.3V/0 \pm 0.3V
	Tuning voltage (TUN)	0.6V to 28V DC
	(LT)	0V to 5.0V DC
1-7	IF Band width	27/18MHz(3dB down) Typ.
1-8	Demodulation system	PLL
1-9	Input structure	F type Female
1-10	Circuit block diagram	Figure 1
1-11	Prescaler division ratio	1/128
1-12	Connection diagram	Figure 3
1-13	Video Circuit for measurement	Figure 4

2. MECHANICAL SPECIFICATION

2-1 Dimension and mounting details Figure 2

3. ENVIRONMENTAL SPECIFICATIONS

3-1	Temperature	
	Operating	0 ^\circ to 50 ^\circ
	Storage	-20 ^\circ to 70 ^\circ
3-2	Humidity	
	Operating	Less than 85%
	Storage	Less than 90%

4. TESTING CONDITION

4-1	Supply voltage (B2)	5.0V \pm 0.1V
	(SWA), (SWB), (BW)	5.0V \pm 0.1V/0 \pm 0.1V
	(TUN)	0.4V to 28V
	(LT)	0V \pm 0.1V
4-2	Ambient temperature	25 ^\circ \pm 5 ^\circ
4-3	Ambient humidity	65% \pm 10%
4-4	Test signal(NTSC)	
	Modulation system:	FM, positive
	PRE Emphasis Characteristic:	CCIR Report 405-1(A)
4-5	Un-selected RF input is 75 ohm terminated	

SHARP PROPRIETARY