



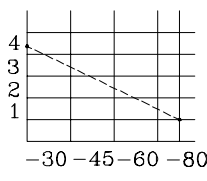
SPECIFICATION															
BS TUNER															
NO.	ITEM	SPECIFICATION	NOTES												
1-1	INPUT FREQUENCY RANGE	900.0 MHz-2150.0 MHz	SP5055												
1-3	ONE INPUT CONNECTOR	SMA TYPE FEMALE													
1-4	NOMINAL INPUT IMPEDANCE	75 ohm													
1-5	TUNING CIRCUIT	BUILT IN PLL													
1-6	IF FREQUENCY	479.50 MHz CENTER													
1-7	IF BAND WIDTH	27 MHz NOMINAL													
1-8	DEMODULATION	PHASE LOCKED LOOP													
1-9	VEDIO OUTPUT POLARITY	POSITIVE GOING													
1-10	OPERATING VOLTAGE	+28V (+/-5%)(TUNING) +5V (+/-5%)(B+)													
1-11	OPERATING TEMPERATURE	-10°C ~ +60°C													
1-12	OPERATING HUMIDITY	LESS THAN 80% R.H. (AT 40°C)													
1-13	STORAGE TEMPERATURE	-20°C ~ +70°C													
1-14	STORAGE HUMIDITY	LESS THAN 95% R.H. (AT 40°C)													
1-15	INPUT LEVEL	-60 ~ -30dBm													
2.	STANDARD TEST CONDITION	TEST FOR ELECTRICAL SPECIFICATION SHALL BE PREFORMED AT FOLLOWING CONDITION UNLESS OTHERWISE SPECIFIED.													
2-1.	AMBIENT CONDITION	TEMPERATURE 25°C+/-2°C HUMIDITY 65% +/-5% R.H. IF NO DOUBT ON TEST RESULTS, TEMPERATURE +5°C ~+30°C AND HUMIDITY 45% ~80% R.H. COULD BE APPLIED.													
2-2.	MEASUREMENT TO START	30 MINUTES AFTER DC POWER SUPPLIED.													
2-3.	POWER SUPPLY	<table border="1"> <thead> <tr> <th>TERMINAL</th> <th>SUPPLY VOLTAGE</th> </tr> </thead> <tbody> <tr> <td>LNB POWER</td> <td></td> </tr> <tr> <td>+5V</td> <td>+5V(+/-)0.1V</td> </tr> <tr> <td>+28V</td> <td>+28V(+/-)0.1V</td> </tr> <tr> <td>SDA</td> <td>SPECIFIED TUNING</td> </tr> <tr> <td>SCL</td> <td>PULSE</td> </tr> </tbody> </table>	TERMINAL	SUPPLY VOLTAGE	LNB POWER		+5V	+5V(+/-)0.1V	+28V	+28V(+/-)0.1V	SDA	SPECIFIED TUNING	SCL	PULSE	
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COMTECH TECHNOLOGY CO., LTD			BSM479LAIDFM (1/5)												



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3.	CURRENT CONSUMPTION	<table border="1"> <thead> <tr> <th>TERMINAL</th> <th>MIN.</th> <th>TYP.</th> <th>MAX.</th> <th></th> </tr> </thead> <tbody> <tr> <td>+5V</td> <td>190</td> <td>240</td> <td>290</td> <td>mA</td> </tr> <tr> <td>+28V</td> <td>0.5</td> <td>1.0</td> <td>3.0</td> <td>mA</td> </tr> </tbody> </table>				TERMINAL	MIN.	TYP.	MAX.		+5V	190	240	290	mA	+28V	0.5	1.0	3.0	mA		
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5.	ELECTRICAL SPECIFICATION	UNDER STANDARD TEST CONDITION TEST CHANNEL : DBS 20 CH INPUT LEVEL : -45dBm UNLESS OTHERWISE SPECIFICIED.																				
		CONDITION	MIN.	TYP.	MAX.																	
5-1.	INPUT VSWR	900MHZ-2150MHZ		2.0	3.0																	
5-2.	NOISE FIGURE	900.0 MHz ~2150 MHz		8.0	12.0	AGC FULLGAIN dB																
5-3.	LOCAL LEAKAGE AT INPUT TERMINAL	900MHZ~1750MHZ 1750MHZ~2150MHZ		-70	-63 -50	dBm dBm																
5-4.	TUNING VOLTAGE CURVE	900 MHz 950 MHz 1150 MHz 1250 MHz 1450 MHz 1650 MHz 1850 MHz 2050 MHz 2150 MHz	1	1.6 2.2 4.0 5.0 7.0 9.2 12.1 15.9 21.0	26.6	V																
5-5.	LOCAL OSCILLATOR +B SHIFT	TUNING VOLTAGE SHIFT WITH +B +/- 5%		± 10		MHZ																
5-6.	LOCAL OSCILLATOR TEMPERATURE DRIFT	TUNING VOLTAGE SHIFT WITH -10°C~+60°C		± 10		MHZ																
5-7.	IF 3dB BAND WIDTH			27		MHZ																
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						BSM479LAIDFM (2/5)																



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5-8.	WINDOW AFT INPUT ON P6	CENTER ERROR(fo)	-1		+1		
		CENTER VOLTAGE	0.14	2.5	4.88		
		SENSITIVE	2	3	4		
		A2	A1	A0	FREQUENCY		VOLTAGE
		1	0	0	TOO LOW		3-13.2V
0	1	1	CORRECT	2.25-3V			
0	1	0	CORRECT	1.5-2.25V			
0	0	1	CORRECT	0.75-1.5V			
0	0	0	TOO HIGH	0.0-0.75V			
5-9.	B.B OUTPUT CHARACTERISTICS	VIDEO WAVEFORM WHITE 100% PAL FREQUENCY DEVIATION 16MHzp-p WITHOUT PRE-EMPHASIS				Vp-p	
		WHITE TO SYNC.	0.55	0.75	0.95		
	(2) GAIN-FREQUENCY RESPONSE	TEST MODULATION FREQUENCY :60Hz~8MHz WITHOUT ENERGY DISPASAL MODULATION REFERENCE FREQ. 100KHz IF BW 27MHz				dB	
		FREQ. RESPONSE		± 1	± 3		
	(3) GROUP DELAY RESPONSE	TEST FREQUENCY :60Hz~8MHz WITHOUT ENERGY DISPASAL MODULATION REFERENCE FREQ. 100KHz IF BW 27 MHz				nsec	
		GROUP DELAY		± 10	± 50		
	(4) DG/DP	10 STEP STAIRCASE 16MHzp-p PAL WITHOUT ENERGY DISPASAL MODULATION POSITIVE VIDEO AMPLIFIER WITH DE-EMPHASIS SHOULD BE APPLIED IF BW 27MHz				%	
		DG (APL 50%)		2	2		
		DP (APL 50%)		2	5.0		
	(5) SN RATIO	INPUT C/N =14 dB (NOISE BW 27MHz) WHITE 100% VIDEO 16MHzp-p PAL WITH AUDIO SUBCARRIER MODULATION 3.4MHzp-p DEV. @6.5MHz POSITIVE VIDEO AMPLIFIEER WITH DE-EMPHASIS SHOULD BE APPLIED 100Hz~5MHz UNWEIGHTED SN FOR:POWER ON RESET INDICATOR				dB	
SN		34.0	36.0				
(6) STATIC THRESHOLE			6.0	8.0			
COMTECH TECHNOLOGY CO., LTD					BSM479LAIDFM	(3/5)	

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7-1.	SIGNAL LEVEL OUT VOLTAGE	(V) SIGNAL LEVEL OUT  INPUT LEVEL (dBM)							47K Ω LOADED																																																																																								
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	(3) SDA SCL INPUT IMPEDANCE	SDA/SCL ARE IN THE HIGH IMPEDANCE AND THERE SHOULD BE NO RELIABILITY PROBLEM WITH 5V CONTINUALLY ON THE SDA/SCL, IF POWER SUPPLY IS SWITCHED OFF.																																																																																															
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