

Multi-LO LNB Controller

Main Feature

- LNB control for the Multi-LO LNB (Philtech)
 - TTL Compatible Control I/F
- Generates 13VDC or 18VDC
- Generates 22kHz tone signal
- Burst DiSeqC™ encoding
- Line (Cable) Loss Compensation
- LNB short circuit protection and diagnostic.
- Internal over temperature protection
- Backward current protection
- Status LED Indicator
- Custom-built available



Electrical Spec.

Parameters	Specifications			Condition
	Min	Typ	Max	
Pass-Band Frequency	0.95 GHz		1.7 GHz	L-Band
LNB Port to MODEM port Insertion Loss			- 2 dB	
LNB Port VSWR			2:1	
MODEM Port VSWR			2:1	
Input Voltage Range	15 ~ 25 VDC			VSEL=L, LLC=L
	23 ~ 25 VDC			VSEL=L, LLC=H
Output Voltage (V)	12.5	13	13.5	VSEL=L, LLC=L
		14		VSEL=L, LLC=H
	17.3	18	18.7	VSEL=H, LLC=L
		19		VSEL=H, LLC=H
Load regulation		80 mV	180 mV	VIN=22V VOUT=13/18V Io = 50 ~ 500mA
Tone Frequency(kHz)	20	22	24	ENT=H
Tone Amplitude(Vpp)	0.55	0.72	0.9	ENT=H
Tone duty cycle	40%	50%	60%	ENT=H
Output Current Limiting	500 mA	650 mA	800 mA	
Dynamic overload protection OFF time		1100 ms		Output Shorted
Control input pin logic LOW (VIL)			0.8 V	
Control input pin logic HIGH (VIH)	2.5 V			
Control pins input current		20 uA		VIH = 5 V
Temp. shutdown threshold		150 °C		

Line-Up

Model No.	LNB/MODEM I/F Connector
PTA-LCF-01	F-Type
PTA-LCN-01	N-Type

Mechanical Spec.

Parameters	Specifications	Condition
LNB Interface	F-connector (75 ohm)	N-connector : option
MODEM Interface	F-connector (75 ohm)	N-connector : option
EXT DC Interface	2-pin Power Connector	
Control Interface	5-pin Harness Connector	
LED Indicator	Green	Normal Operation
	Red	Overload Status
Mount Hole	Top	M3, 0.5P Tap, 4Pcs
	Bottom	M3, 0.5P Tap, 4Pcs
Dimensions	61.0(L) x 61.0(W) x 21.0(H) mm	Exclude F-connector
Weight	200g Max.	
Operating temperature	-30 ~ +60 °C	
Storage temperature	-40 ~ +80 °C	