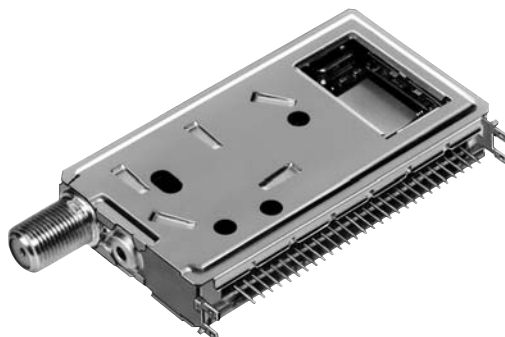


デジタル衛星放送用8PSK/QPSK復調器内蔵高周波ユニット

RF unit with 8PSK/QPSK Demodulator for Digital BS

BSB□ Series

8PSK/QPSK復調器内蔵によりセット設計の効率化・合理化に貢献。
Built in 8PSK/QPSK demodulator simplifies and rationalizes of set design.



■ 特長

- IQ復調部はダイレクトコンバージョン方式およびRF部にトラッキングフィルタを採用し、耐妨害性能を重視。
- 優れた位相雑音特性、群遅延特性により、ビットエラーレート性能の向上に寄与。
- 最適化設計による低消費電力（1.6W max.）。
- 取付形状は、伏形/立形が可能。

■ 用途

- デジタルBSレシーバ、セットトップボックス、VTR、PC、PVR

■ Features

- The performance of interruption resistance is strengthened by applying the direct conversion system to IQ demodulator and adopting a tracking filter to RF portion.
- Low Bit Error rate with Excellent phase noise and group delay.
- Low power consumption by optimized RF design.
- Horizontal mount, Vertical mount available.

■ Applications

- Digital BS receiver, Set Top Box, VCR, PC, PVR

■ 印加電圧 Supply Voltage

Unit : V

Terminal	BSBN2	BSBE1
RF AMP	+5	
+B	+5	
TU	+30	
Demodulator I/O drive	+3.3	
Demodulator Core drive	+1.5	+2.5

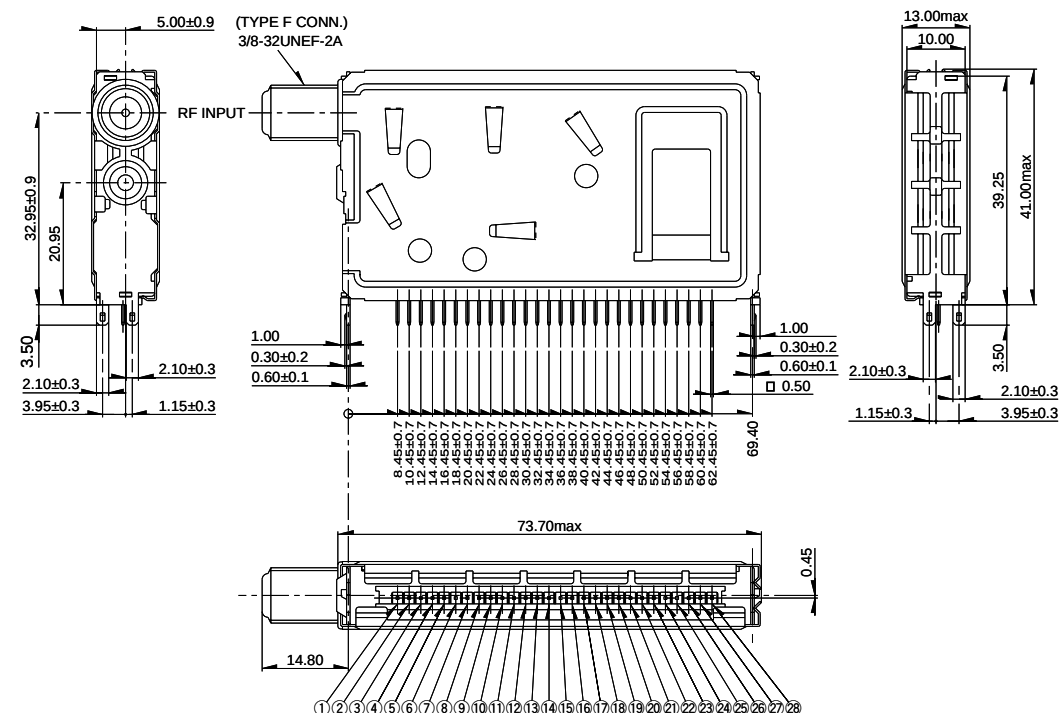
■ 電氣的仕様 Electrical Specifications

Items	BSBN2	BSBE1
Input frequency range (MHz)	950~2150	
Input level range (dBm)	-65~-25	
Input VSWR	2.5 max.	
Tuning control	I ² C bus control	
Demodulation format	8PSK/QPSK	QPSK
Demodulator IC	NEC μ PD61521	ST Micro STV0299B
Symbol rate	28.86Mbaud	1~45Mbaud
Bit error rate	1×10^{-4} max. (Before RS) @CN9.1dB	DVB-S compatible
Power consumption (W)	1.6 max.	
Mounting	Vertical / Horizontal	

外形図 Dimensions

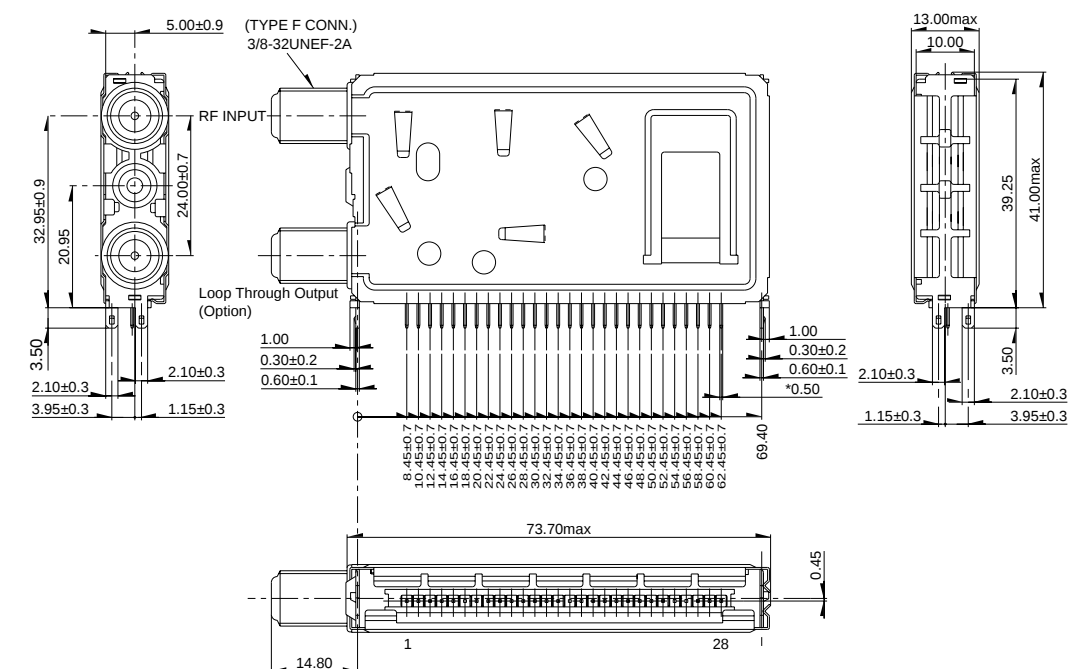
Unit : mm

BSBN



Terminal No.	Terminal Name
①	LNB POWER (RF INPUT)
②	DNC
③	+5V(RF AMP)
④	+5V
⑤	+30V
⑥	SF SYNC
⑦	RESET
⑧	TMCC EMG
⑨	TMCC CHG
⑩	HLFLAG
⑪	FSYNC
⑫	+3.3V
⑬	GND
⑭	+1.5V
⑮	LNBCLK
⑯	PSYNC
⑰	DEN
⑱	DATA7
⑲	DATA6
⑳	DATA5
㉑	DATA4
㉒	DATA3
㉓	DATA2
㉔	DATA1
㉕	DATA0
㉖	BCLK
㉗	SDA
㉘	SCL

BSBE



Terminal No.	Terminal Name
①	LNB POWER (RF INPUT)
②	LNB POWER (LOOP OUT)
③	+5V(RF AMP)
④	+5V
⑤	+30V
⑥	N/C
⑦	RESET
⑧	ERROR
⑨	OP0
⑩	OP1
⑪	LOCK/OP2
⑫	+3.3V
⑬	GND
⑭	+2.5V
⑮	F22/DISEQC
⑯	STR_OUT
⑰	D/P
⑱	DATA7
⑲	DATA6
⑳	DATA5
㉑	DATA4
㉒	DATA3
㉓	DATA2
㉔	DATA1
㉕	DATA0
㉖	CLK_OUT
㉗	SDA
㉘	SCL