

198A-SW

TV SOUND MULTIPLEX ADAPTER (SWEDEN SYSTEM)

Video & audio signal generator/Multiple-signal generator



- Output level0dBm, 75 Ω
- **QPSK IF Output**
 - Modulation carrier frequency32.348MHz ± 1 × 10⁻⁶
 - Output level100dB μV, 50 Ω
 - (Possible to change by factory setting at shipping)
- **Output Level Variation**0 ~ 60dB in step of 1dB
- (Separate attenuator is equipped for FM carrier and QPSK carrier)
- **Input (Function of 198A Encoder itself)**
 - Serial dataTTL level
 - (This can be used as input of 728k bits/s serial data from 198A or input terminal for error rate measurement)
 - Modulation carrier external input (Possible to switch to internal X'tal, external input & bit clock sync.)6.552MHz ± 50kHz
 - BNC connector 50 Ω, More than 110dB μV

General

This unit is converter to generate Sweden system base band QPSK carrier (5.85MHz) and IF 33.05MHz by combining with 198A UK TV multiplex sound encoder, and sound multiplex system of CCIR-B system can be configured with the combination of CCIR-B system TV modulator.

Serial data of 728k bits/s are used by distributing serial data of 198A UK system.

Features

- Simultaneous output of UK sound multiplex and Sweden sound multiplex is possible.
- 2 sets of combiner for ordinary FM sound carrier and QPSK carrier, one is for UK system & one is for Sweden system, are incorporated in this unit, so that simultaneous output of UK system sound multiplex IF_A signal and Sweden system IF_A signal is possible.
- Level of S1 & S2 can be varied independently.
- By using this unit, S1 (FM sound carrier) & S2 (QPSK carrier) of UK system and S1 & S2 of Sweden system can be varied 60dB independently in step of 1dB.

Composition

- Main Unit 1
- Dimensions 425(W) × 149(H) × 450(D) mm (Excluding projections)
- Weight Approx. 18 kg
- Accessories
 - Power Cable (Including 3pin→2pin converter) 1
 - Rack Mount Adapter..... 1set
 - Instruction Manual and Test Result Sheet 1
 - 75 Ω terminator 1
 - BNC Cable 5
- Power Source
 - Input Voltage Allowable Range : AC100V, AC120V, AC220V, AC240V
 - by switching (50Hz/60Hz)
 - Power Consumption : Approx. 48VA
- Operating Environment
 - Temperature : + 5 °C ~ +40°C
 - Humidity : 45% ~ 85%RH (No dew generation)

Rating

- **QPSK Base Band Output**
 - Modulation carrier frequency5.85MHz ± 1 × 10⁻⁶
 - Output level0dBm, 75 Ω
- **QPSK IF Output**
 - Modulation carrier frequency33.05MHz ± 1 × 10⁻⁶
 - Output level100dB μV, 50 Ω
 - (Possible to change by factory setting at shipping)
- **Output Level Variation**
 - 0 ~ 60dB in step of 1dB
 - (Separate attenuator is equipped for FM carrier and QPSK carrier)
- **Input**
 - Serial dataTTL level
 - (This can be used as input of 728kbits/s serial data from 198A or input terminal for error rate measurement)
 - Modulation carrier external input (Possible to switch to internal X'tal, external input & bit clock sync.)5.85MHz ± 50kHz
 - BNC connector, 50 Ω, More than 110dB μV
- **Function of IF combination and ATT of UK Sound Multiplex**
 - As simultaneous output of 2 systems is possible in this unit, combiner for UK sound IF_A is incorporated in order to change level of each S1 (FM carrier) & S2 (QPSK carrier) independently. Specifications of UK sound multiplex IF are the same as those of Sweden system sound multiplex by combining with 198A encoder which are as follows.
- **QPSK Base Band Output**
 - Modulation carrier frequency6.552MHz ± 1 × 10⁻⁶