

Jung-Jin DMB-1505

DAB/DMB Up-converter



1. INTRODUCTION

The model DMB-1505 is a high-performance RF synthesized signal generator. It is designed to convert signals generated by an OFDM signal generator into signals in the tuner reception frequency Bands conformable to the European DAB (Digital Audio Broadcast) standards. It covers the frequency Band II (87.5 ~ 108MHz), Band III (174 ~ 250MHz) and Band L (1452 ~ 1492MHz), and controls output level in units of 0.1dB from 0dBm to -120dBm and the frequency in units of 1Hz. Also, it is possible to store and recall 300 setting points and is suited for developing and manufacturing of DAB system.

2. FEATURES

- High performance frequency synthesizer using DDS.
- High resolution output frequency : 1Hz
- Output range : -120dBm ~ 0dBm
- Store – recall up to 300 points.
- GPIB, RS-232C standard.
- VFD display
- Fine tune rotary knob for frequency and output level

3. SPECIFICATIONS RF Output

		.Frequency	
. Range	Band II	:	87.5 MHz ~ 108 MHz
	Band III	:	174 MHz ~ 250 MHz
	Band L	:	1452 MHz ~ 1492 MHz
. Resolution		:	1Hz
. Accuracy		:	$\pm 5 \times 10^{-8}$
. Output level			
. Range		:	-120dBm ~ 0dBm
. Resolution		:	0.1dB
. Frequency Response		:	± 1 dB or less
. Level Accuracy		:	Band II,III (Max. ± 1.5 dB) : Band L (Max. ± 2.0 dB)
. VSWR		:	Max 1.8
. Harmonics		:	< -30dBc
. Non-harmonics		:	< -50dBc
. FM modulation			
. Fixed Frequency		:	400Hz or 1kHz
. Internal Frequency		:	10Hz~20kHz
. External Modulation		:	Impedance : 600 Ω unbalanced
InputVoltage : 1V _{PEAK}			
. Deviation Range		:	0 ~ 100kHz
. Resolution		:	100Hz
. Accuracy		:	$\pm 6\%$ at internal rate
. Distortion		:	Less than 2% by 1kHz AF Signal
. IF Input Signals			
. Frequency		:	35MHz~40MHz (8kHz Step)
. Input Level		:	-20 ± 1 dBm
. Input Impedance		:	50 Ω
. Maximum Input level		:	+18dBm
. I/Q Input			
. Input Voltage		:	1 V _{p-p} ± 100 mV
. Input Impedance		:	50 Ω .
Connector : BNC-R			
. Memories		:	300 Points .
Interface : GPIB, RS-232C .			
Power Requirements : 115/230VAC 50/60Hz .			

Dimensions : 115(H) X 430(W) X 435(D)mm .

Weight : Approx.14 kg.

Standard Accessories : Power Cable, Operating Manual, Fuse

※ Note : Specifications are subject to change without notice.

台灣總代理

同昱通訊有限公司 www.t-e.com.tw

T&E Communication Co., LTD

TEL:- 886-2-23315366

FAX:-886-2-23315365

MPG-1506
Multi Pattern Generator



DMB-1505
DAB/DMB Up-Converter



DAB/DMB TX Antenna



DUT
(DAB/DMB receiver)