



DPA-10-20-J: 100 kHz / 10 MHz Distribution Amplifier



Key Features

- 10 MHz Main Input
- Option for 10 + 10 outputs
- Outputs drive 50 ohm loads
- Good channel isolation
- Five outputs at 10 MHz (sinewave @ +10 dBm)
- Five outputs at 100 kHz (sinewave @ +10 dBm)
- Available in other frequencies combinations from 1 to 100 MHz.

General Description

The DPA-10-20-J is a distribution amplifier that's accepts a 10 MHz sinewave or squarewave input. The inputs level can be anywhere from 0 to 15 dBm.

Outputs

There are five outputs at 10 MHz (exactly the same frequency as the input). These outputs are sinewave with a nominal output level of +10 dBm.

There are a further five outputs at 100 kHz (input frequency divided by 100). These outputs are sinewave with a nominal output level of +10 dBm.

The output level remains constant even if the input reference varies over the 0 to +15 dBm range.

Options

There are many options available including:

- Double the outputs (10+10)
- Squarewave Outputs
- Redundancy
- +12VD External DC Input
- Different frequency combinations (input and output)
- Back-up OXCO: switched in if input reference fails
- Alarm Outputs

Applications

The DPA-10-2-J Distribution Amplifier is ideal for use in calibration or standard laboratories, radio repair workshops or production facilities. Many DPA-10-20-J 's can be connected together to give multiple outputs. Over 1000 outputs can be derived from one reference input.

Miscellaneous Information

The DPA-10-20-J is a highly reliable unit with an MTBF of over 60 years. The DPA-10-20-J is housed in a fully screened 19" rack mount case and operates from a 100 - 240 VAC supply (usable 90 – 260 VAC). The DPA-10-20-J is CE marked for sale within the EEC.

DPA-10-20-J SPECIFICATIONS

Specification Parameter	Specification	Comments
Input		
Input Frequency	10 MHz sinewave or squarewave	
Input Impedance (sinewave)	50 Ω	
Input Level	+15 dBm to -5 dBm (sinewave) 0 – 3V min (TTL)	
Outputs (10)		
Output Waveform	Sinewave	Squarewave is an option
Number of Outputs	5+5 or 10+10 as an option	
Output Frequency (10 MHz)	Exactly the same as the input frequency	
Output Frequency (100 kHz)	Exactly 1/100 of the input frequency	
Output level	+10 dBm \pm 3 dBm	Outputs specified into a 50 Ω load.
Jitter (1 second, Allan Deviation)	< 1 ps	Typical
General		
Power: AC / DC	100 - 240 VAC	+12VDC option
Size and weight	483 x 300 x 44 mm and 2.8 kg	Width x Depth x Height
Ambient Operating Temperature	-10°C to +50 °C	
Precision Test System Contact Details		
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Full specifications available from www.ptsyst.com. Specifications and features subject to change without notice (200916)