

DIMA

High Density RF Splitter / Combiner

The Dense Intelligent Multi-Access (DIMA) is a headend splitter/combiner assembly in a 1RU or 5RU 19 inch chassis. And each module can integrate 3x double splitters, 2x four splitters or 1x eight splitters.

The DIMA is designed to operate as an RF splitter or combiner in both the forward and return path in close relation with the PBN AIMA3000 platform.

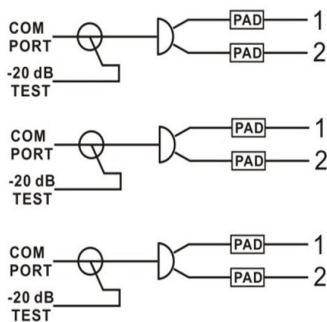


Key Features

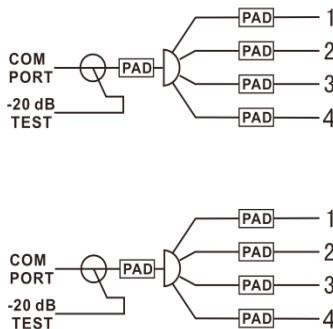
- Excellent RF characteristics with full bandwidth of 5-1000 MHz
- High quality RF performance with full 1 GHz spectrum bandwidth
- High density RF combiner with up to 20 slots
- Output test point (-20 dB)
- Plug-in attenuation pad on every port to control input and output
- Each port can withstand a breakdown voltage of 1000 Vdc
- Variety of module configurations available:
 - 3 x 2
 - 2 x 4
 - 1 x 8

Block Diagrams

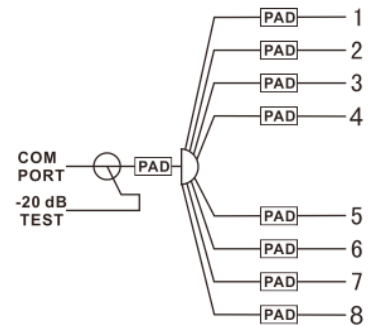
Splitter:



DIMA-5A32



DIMA-5A24



DIMA-5A18

High Density RF Splitter / Combiner

Specifications

Performance

| | | |
|---|---------------------------------|---------|
| Bandwidth | 5 ~ 1000 MHz | |
| Flatness | ±0.5 dB | |
| Impedance | 75 Ω | |
| Splitter insertion loss (internal equalization for flat output) | 5A32 | 4.5 dB |
| | 5A24 | 9.5 dB |
| | 5A18 | 13.5 dB |
| Test point | -20 ± 1dB | |
| RF return loss | > 18 dB, minimum with all ports | |
| Isolation port-to-port | > 30 dB, minimum | |
| DC breakdown voltage | > 1000 Vdc | |

General

| | |
|---------------------------------|---------------------|
| Temperature and humidity | Working temperature |
| | Storage temperature |
| | Operating h |
| | Storage humidity |
| Dimensions (W x D x H) | 385 x 340 x 225 mm |
| Weight (chassis) | 3.0 kg |
| Weight (module) | 0.7 kg |

Order Details

Chassis:

- DIMA-5U** 5RU height chassis holding up to 20 DIMA modules
DIMA-1U 1RU height chassis holding up to 4 DIMA modules

Modules:

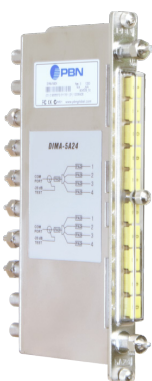
- DIMA-[Z]** | Densely Intelligent Multi-Access modules

Options:

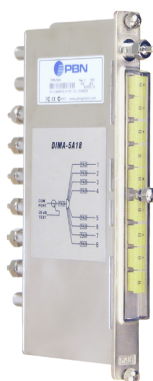
- Z Available combiner modules**
- 5A32** 3 x 2-way splitter/combiner
 - 5A24** 2 x 4-way splitter/combiner
 - 5A18** 1 x 8-way splitter/combiner



DIMA-5A32
3 x 2-way splitter/combiner



DIMA-5A24
2 x 4-way splitter/combiner



DIMA-5A18
1 x 8-way splitter/combiner

Specifications Subject To Change Without Notice

Rev 001

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