

## Dual Passive Splitter

### FEATURES

- Dual 2 way RF splitters.
- Operates in the frequency range of 0.25 MHz to 300 MHz.
- Suitable for 34/45/270 Mb/s data rates.
- No power required – totally passive.
- Connections made by BNC connectors.
- May be mounted in the same frame as other IRT Eurocards including VDA's, ADA's, detectors and processors.

### GENERAL

The DDF-3101 is a dual 2 way RF splitter in a standard 3 RU Eurocard format. As such, it can be mounted in the same frame as other IRT Eurocards including VDA's, ADA's, detectors and processors.

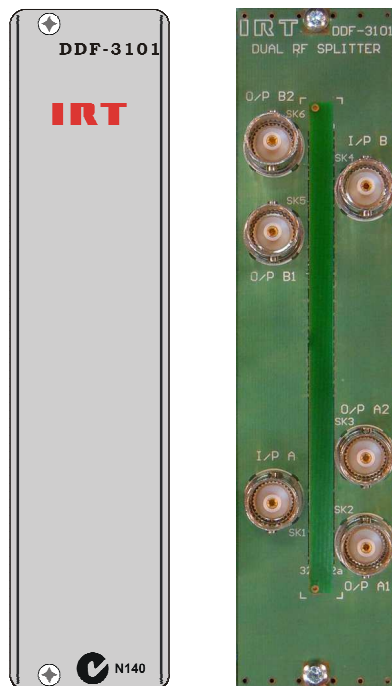
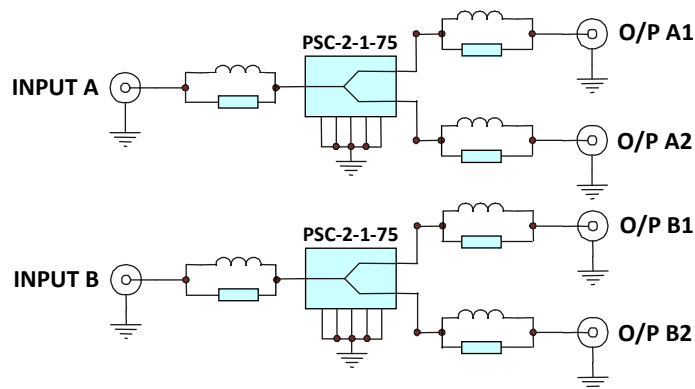
It is primarily intended for use as a passive splitter for splitting data streams.

Each of the RF splitters is rated for 250 kHz to 300 MHz operation and is suitable for 34, 45 or 270 Mb/s data rates.

The DDF-3101 is a passive unit that requires no power to operate.

The DDF-3101 comes with a rear connector panel comprising of 75Ω BNC input and output connectors.

BLOCK DIAGRAM DDF-3101 SIGNAL PATH



## TECHNICAL SPECIFICATIONS

## Input / Output:

Number	2.
Type	75 Ohm.
Format	Passive 2 way split.

## Performance:

Frequency range	0.25 to 300 MHz.
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## Isolation

0.25-2.5 MHz	> 15 dB;
2.5-150 MHz	> 15 dB;
150-300 MHz	> 15 dB.

## Insertion loss above 3 dB

0.25-2.5 MHz	< 0.75 dB;
2.5-150 MHz	< 2.0 dB;
150-300 MHz	< 2.0 dB.

## Phase unbalance

0.25-2.5 MHz	< 2.0°;
2.5-150 MHz	< 3.0°;
150-300 MHz	< 5.0°.

## Amplitude unbalance

0.25-2.5 MHz	< 0.15 dB;
2.5-150 MHz	< 0.2 dB;
150-300 MHz	< 0.3 dB.

Maximum power dissipation	1 W.
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Connectors:	BNC.
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Power requirement:	Nil – totally passive.
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## Other:

Temperature range	0 - 50° C ambient.
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Mechanical	Suitable for mounting in IRT 19" 1RU or 4000 series 3RU rack chassis with input and output connections on the rear panel.
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Finish	Front panel	Grey background, black lettering & red IRT logo.
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Rear assembly	Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
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Dimensions	6 HP x 3 U x 220 mm IRT Eurocard.
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