

DFF60 / DFF30

60 GHz / 30 GHz Master-Slave-D-FlipFlop

MICRAM

Type: Module	Technology: SiGe	f_T / f_{max} : 170/250 GHz	Metallization: 4	Ref.-No.: R1028
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Brief description

The DFF60 / DFF30 are High-Speed Master-Slave-D-FlipFlops for data rates up to 60 Gb/s respectively 30 Gb/s.

Key features are:

- single-ended and differential IO operation,
- broadband operation,
- adjustable output swing,
- single supply voltage

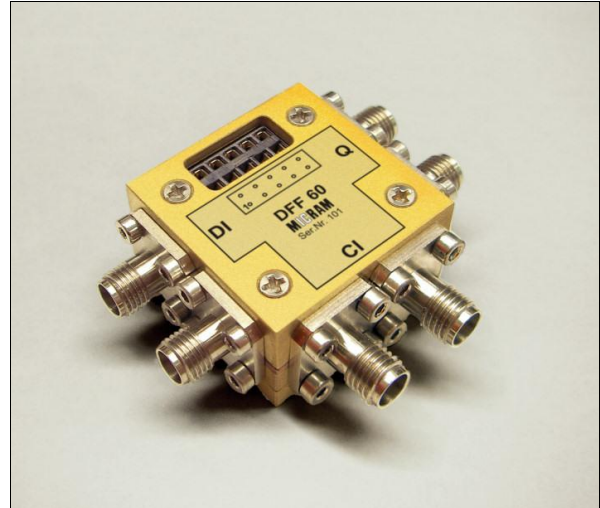
The DFF60 / DFF30 are Master-Slave-D-FlipFlops with fully symmetrical input/output buffers which can operate either in single-ended or differential mode. The DFF60 is designed for retiming of data signals up to 60 Gb/s. The DFF30 is a scaled down version with lower power consumption for data rates up to 30 Gb/s but otherwise identical features.

Package

The DFF60 and DFF30 are available as ruggedized K and/or V connectors Modules.

For further information on the DFF60 / DFF30 please contact your MICRAM sales representative.

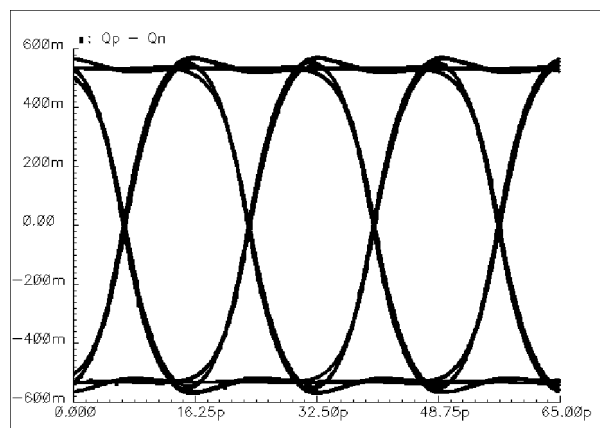
DFF60 / DFF 30 Module



DFF60 / DFF 30 electrical data

Power supply (V_{ee})	-4.5 V
Current consumption	~190 mA (DFF60) ~110 mA (DFF30)
max. Datarate	60 Gb/s (DFF60) 30 Gb/s (DFF30)
Input data amplitude se	+30...300 mV
Input Clock (typical)	250 mV
Output amplitude se	500 mV (default) 200 mV – 800 mV

Simulated output signal of DFF60 @ 60 GB/s



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