Data Sheet



RF-over-Fiber RFoF1 – 40 GHz

Description

The RF-over-Fiber Module (RFoF1 - 40 GHz) is a RF Module that converts analog RF signals into Fiber signals; and also converts Fiber signals to RF signals. The module offers a wide frequency range up to 40 GHz. Ideal for high-tech applications requiring high frequency ranges and very low noise.

Features

- · Wide bandwidth from 500 MHz to 40 GHz
- Small form factor

Applications

- Defence applications
- · Test environments



Order Information

Item Description	Item Number
RFoF1 – 40 GHz (TX)	85109692
RFoF1 – 40 GHz (RX)	85109694

Electrical Data

Parameters			Value	Value		
			Min.	Тур.	Max.	
All specifications at 25°C case Temperate	ure T _c , unless o	therwise specified				
_						
Frequency range		MHz	500		40000	
Gain		dB	-23	15	+25	
Gain flatness		dB / 1 GHz		2		
Noise figure		dB		28		
Spurious-free dynamic range		dB Hz²'3		100		
Max. input at 1dB compression		dBm		-10		
Max. input power for no damage		dBm		+15		
Input Return Loss		dB		>8		
Harmonics		dBc		>55		at -20 dBm input
Spuriouse		dBc		>65		
Supply voltage Transmitter		VDC	+11	+12	+15	750 mA
Supply voltage Receiver		VDC	+11	+12	+15	600 mA
Temperature range (OTR)	Operating	°C	-20		+60	
	Storage	°C	-55		+85	
RF input impendence		ohm	50	50		
RF connectors			SK	SK		
			SK	SK		

Optical Data

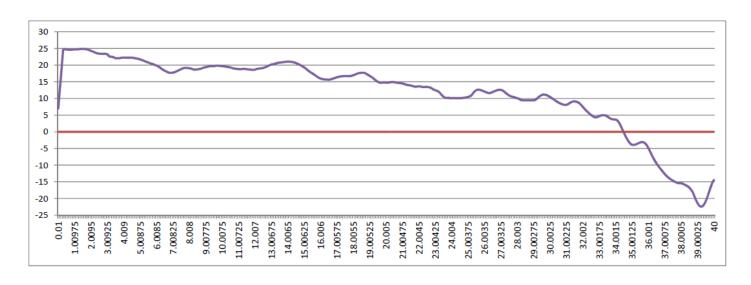
Parameters		Value			Remarks	
		Min.	Тур.	Max.		
All specifications at 25°C case Temperature $T_{\text{\tiny C}}$, unless otherwise specified					
Fiber optic connectors		FC/APO)	Alternative connectors possible		
Fiber		Single r	node fiber 9/1	25 um		
Wavelength	nm		1550			
Optical power in fiber	mW	3	5	10		
Side mode suppression ratio	dB	30	40			

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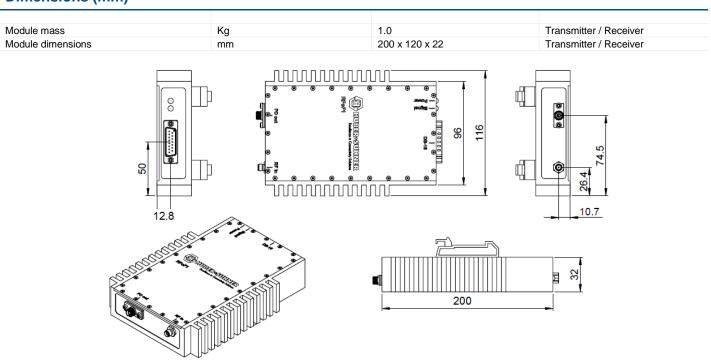


RF-over-Fiber RFoF1 - 40 GHz

Typical Frequency Response (based on 3 random samples)



Dimensions (mm)



Additional Information

- All modules are RoHS Compliant
- All modules are EMC protected
- DIN 35 brackets are delivered with each module. Other brackets available upon request
- MIL and other certifications are possible upon request
 - Various racks and enclosures available

Important catalogue links

Data Sheet



RF-over-Fiber RFoF1 – 40 GHz

RF Cables: http://literature.hubersuhner.com/Technologies/Radiofrequency/RFCablesEN/
RF Connectors: http://literature.hubersuhner.com/Technologies/Fadiofrequency/RFConnectorsEN/
FO Standard Assemblies: http://literature.hubersuhner.com/Technologies/Fiberoptics/FocableassembliesEN/

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 und IRIS

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