

RF Fiberoptic link

Receiver and Transmitter

RFO 201000-DFB

This RF fiberoptic link is designed for remote RF signal in a wide range of frequency between 20 to 1000 MHz

Features :

- * DFB laser diode > 2 mW output power , RX photo diode InGas
- * Optical isolator included
- * Over temperature protection
- * dry loop alarm for RX and TX
- * High output IP3
- * input LNA in option

Applications :

- * RF and Microwave links
- * remote RF link for RF signal (GSM,HDTV,OFDM,TETRA,Multi tones ...)
- * CDMA, TDMA
- * Instrumentations



Case : RAC001-01

Specifications

Characteristics	Data	Units
Frequency range	20 MHz - 1000 MHz	MHz
Wavelength	1360	
Typ.	1310	nm
Min	1290	
Optical output power	$2 < P_o < 4$	mW
link gain (for 0 dBo)	+/- 2	dB
Flatness	+/- 1,5	dB
Input power for rated output power	0	dBm
Max. RF input power	20	dBm
In / Out impedances nom.	50 ***	Ohms
Input VSWR	1,5 : 1	
Relative intensity noise	-135	dB/Hz
Intercept point 3 rd Order typ.(link)	30	dBm
Alarm (over current , no optical signal)	dry loop	
Optical connectors	FC/APC *	
Fiber loss	0,4	dB/km
optical connectors loss	0,5	dB/paire
Typical RF link NF	40 **	dB
RF connectors	SMA female	
Storage temperature range	-40 °C ... + 85	° C
Operating temperature Range	-20 °C ... + 60	° C
Power Supply option 1	12 V DC	V
Power Supply option 2	48 V DC	V
Power Supply option 3	230 V AC	V
size (W x L x H)	2 x 1 U 19 " rack typ d = 360 mm	mm
All data at room temperature + 22 °C, into 50 Ohms, subject to change without notice		

* Other connectors can be mounted upon request

** a LNA can be added as a option for low noise application

*** option 75 for 75 ohms

Made in European Union

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