

DSC-R403 Super-High Gain 10 GHz Bandwidth Optical Receiver

Description:

This 30 dB Gain Photoreceiver with 10 GHz bandwidth in a pigtailed microwave package consists of an InGaAs/InP infrared photodiode, a preamplifier and post amplifier. Low electrical return loss and small ripple improves link design budgets. Suitable for broadband and analog RF over fiber applications

Features:

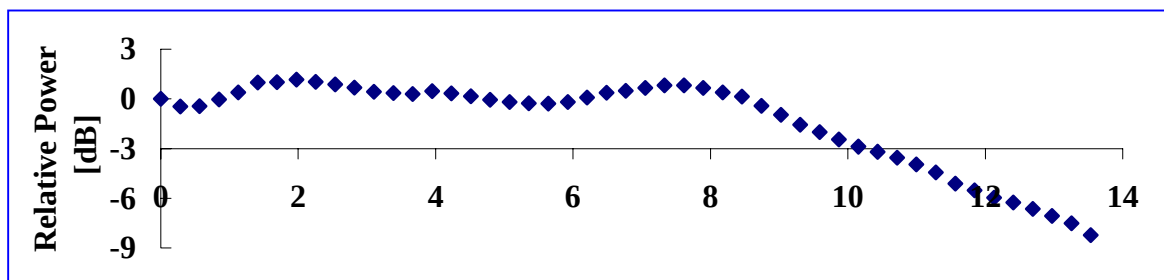
- Super High Gain Wide Bandwidth
- Low Noise and Low Group Delays
- Small Footprint Package
- Hermetically Sealed And Built To GR-468 Standards
- No Bias Tee Needed

Applications:

- Broadband and Analog RF
- Phased Array



Typical Frequency Response Curve



Specifications:

Parameter	Min.	Typ.	Max.	Units
Responsivity @ 1.55um of the PD		0.7		A/W
Conversion Gain @ 1.55um		1000		V/W
Power Gain of Amp		30		dB
Equiv. Transimpedance		1600		Ω
Gain Flatness		+/-1		dB
Bandwidth (1.55 um)	9	10		GHz
Lower Limit		2		MHz
Noise		20	25	pA/ $\sqrt{\text{Hz}}$
+ Bias Voltage		+8	+8.4	V
- Bias Voltage		-1		V
Power Dissipation		1500		mW
Electrical Return Loss	10	15		dB
Optical Return Loss	-30	-35		dB
Wavelength response	0.8		1.6	μm

Options:

Optical Input:

Pigtail:	1 m Single or Multi-Mode fiber
Fiber buffer dia.:	3 mm std., 0.9 mm optional.
Connector:	FC, SC, ST, others by request
Finish:	PC, UPC, APC

RF Output:

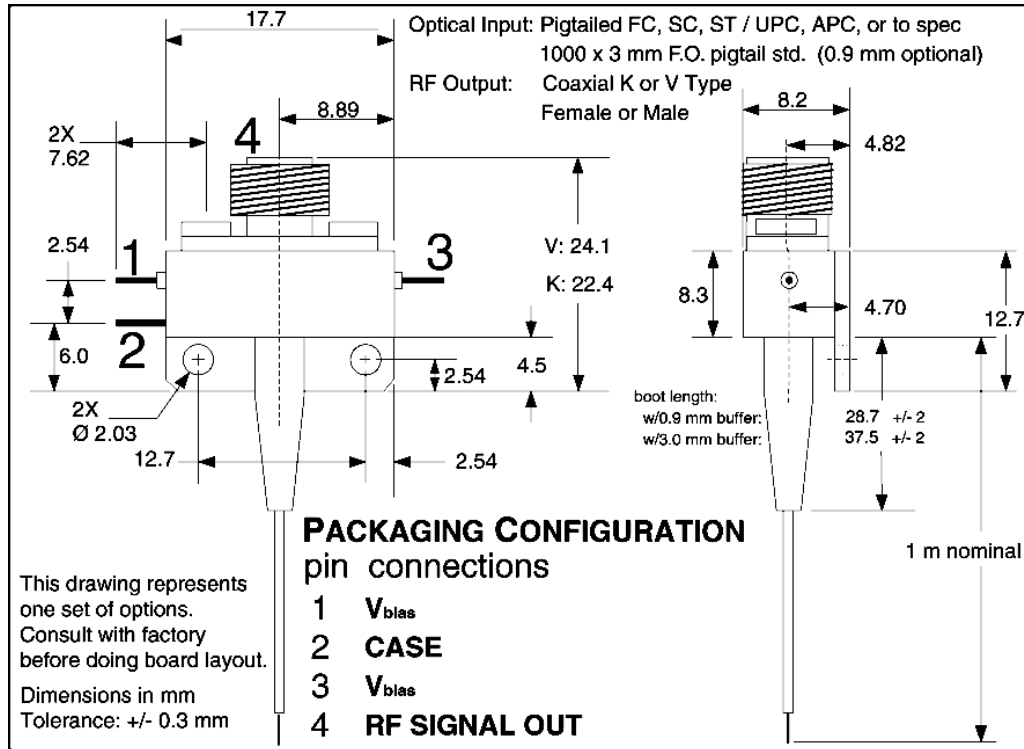
Connector:	K female std., male optional
Coupling:	AC only

R403c 1100

186 Princeton-Hightstown Rd. Bldg. 3A, Princeton Jct, NJ 08550, USA
Phone: (609) 275-0011 Fax: (609) 275-4848 www.chipsat.com sales@chipsat.com

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PACKAGING CONFIGURATION for R403



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PIN 1: + 8 V

PIN 3: - 1 V