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Fiberoptic Electric Field Sensor

Product Description

This Electric-field sensor, based on EO effect and coupled with a dual-fiber collimator, is probed by a laser through optic fiber and packaged only with dielectric components. It is ideally suitable to remotely and nonintrusively measure electric fields and microwave radiation up to Gigahertz range.



Performance Specifications of High Frequency

E-filed Sensor	Min	Typical	Max	Unit
Frequency	DC		7.0	GHz
Sensitivity*		8		mV/m-Hz ^{1/2}
Maximum detectable E-field		200		kV/m
Damage E-field			5	MV/m
Package Dimension**	6.0 x 6.0 x 30.0			mm

* Defined by measuring with a 1550nm laser at 20mW and 10 MHz.

** High frequency sensor

Performance Specifications of Low Frequency

Low Frequency Sensor	Min	Typical	Max	Unit
Frequency	DC		400	MHz
Sensitivity*		0.8		mV/m-Hz ^{1/2}
Maximum detectable E-field		· · · ·	1	kV/m
Damage E-field		* *	5	MV/m

* Defined by measuring with a laser at 20mW and 10 MHz.



Applications

Test & evaluation of

HPM, HRI and EMP systems,

such as Active Denial Systems & PAA radars

Features

Passive

Miniature

resistance

High sensitivity
Wide bandwidth
High damage threshold

No metal parts

Optical fiber readout

• High shock/vibration

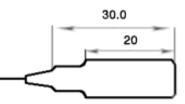
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Fiberoptic Electric Field Sensor

Mechanical Dimensions for Current Version (mm)



Ordering Information

EOFS-		2			1	1		
	Туре	Configuration	Package		Fiber Type		Fiber Length	Connector
	11=High Freq 12=Low Freq	2: Reflective	1: Standard 0: special	Bare fiber=1 900um loose tube=3 Special=0		MM 62.5/125=1 For Output Special=0	0.25m=1 0.5m=2 1.0 m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0



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