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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 <sup>1/2</sup>
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 <sup>1/2</sup>
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

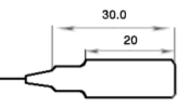
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## Mechanical Dimensions for Current Version (mm)



## **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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