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 non-intrusively measure electric fields and microwave radiation up to Gigahertz range.

Features

- No metal parts
- Passive
- Miniature
- Optical fiber readout
- High shock/vibration resistance
- High sensitivity
- Wide bandwidth
- High damage threshold

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

RoHS Compliant

15 Presidential Way, Woburn, MA 01801 Tel: (781) 9351200 Fax: (781) 935-2040
www.agiltron.com

Revision: 060-08
09-17-13

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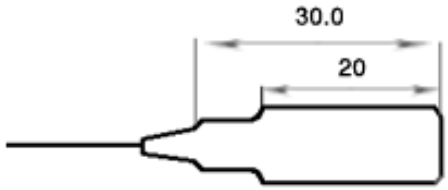
Mechanical Dimensions for Current Version (mm)



Ordering Information

EOFS-	☐☐	2	☐	☐	1	1	☐	☐
	Type	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	Panda PM=1 For input 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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