## HIGH-SPEED INTEGRATED PHOTOPS™



### UDT-604 FIBER OPTIC RECEIVER

This product features the high speed performance of the UDT fiber optic series detectors. In addition, the hybrid provides signal amplification using an integral transimpedence amplifier with the feedback components inside, providing the user with sufficient voltage signal output (detector bias internal 5-7 volts).

### UDT-615 FIBER OPTIC RECEIVER

This product features the high speed performance of the UDT large area/high speed photodiodes. The sensor has a large range of optical responsivity in the range of 500-1100 nm, with peak responsivity at 850 nm. In addition, the hybrid device provides signal amplification using a hybrid trans-impedance amplifier with the feedback components integrated inside the package, including the supply line de-coupling capacitors (0.01  $\mu$ f).

### **DETECTOR SPECIFICATIONS**

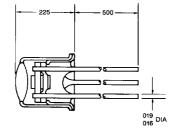
Typical at 22°C

MODEL #	ACTIVI AREA (sq. mm)	SURFACE DIA (Inches)	CAPACITANCE @ 15V	DARK CURRENT @ 15V	BREAKDOWN VOLTAGE (VOLTS)
UDT-604	0 80	1 00	4 5	10	50
UDT-615		0.041 × 0.061	1 10.0	2.0	501-1

UDT-604 Responsivity is 5 A/W Typ at 830nm @ 5V bias UDT-615 Responsivity is 5 A/W Typ at 850nm @ 15V bias

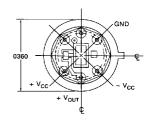
UDT-604 Response Time is measured at 830nm @ 5V bias UDT-615 Response Time is measured at 850nm @ 15V bias

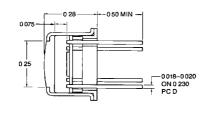
# 210 V<sub>O</sub> GND 3



### UDT-615

UDT-604





#### **HYBRID AMPLIFIER SPECIFICATIONS**

### Typical at 22°C

	SENSITIVITY	CUT-OFF FREQUENCY (-3dB)	RISE/FALL T., T.	GUTPUT NOISE VOLTAGE MV PMS		POWER SUPPLY REQUIREMENTS Y DC	QUIESCENT CURRENT
UDT-604	0 75 min	90	<4	0 20	26 0	± 5 min -7 max	15
UDT-615	1.26 min	70	√5 ± 1	0.45	62.5	7 - 2154 -	1841