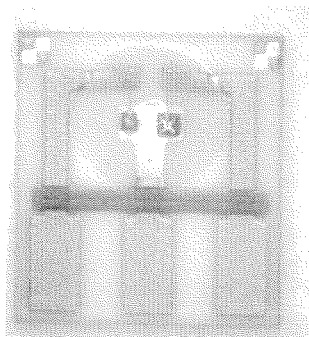


Opera part number: **0030986**



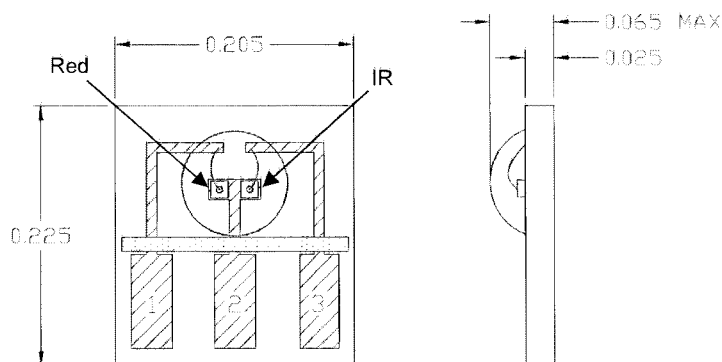
**PIN 16703-1**  
**Three Drive Emitter, Oximeter Component**  
 (660/880 nm) Type



**FEATURES**

- Low cost
- 660nm  $\pm$  3nm
- 2 drive line

**PACKAGE DIMENSIONS IN INCH**



**DESCRIPTION:** PIN 16703-1 is a three drive line dual emitter oximeter component. The 660 and 880 nm GaAlAs emitters are high power LPE grown, packaged with leadless ceramic substrate. It is ideal for O.E.M. and repair replacements of oximeter probe assemblies or application requiring low cost bi-wavelength light source.

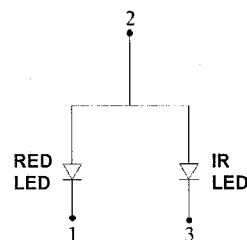
**APPLICATIONS**

- Oximeter probes
- Finger clamps
- Reusable probes

**ABSOLUTE MAXIMUM RATING** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS
$P_d$	Power Dissipation $I_F=20\text{mA}$		240	mW
$I_{fD}$	Continuous Forward Current		40	mA
$I_{fP}$	Peak Forward Current		100	mA
$V_R$	Reverse Voltage		5	V
$T_s$	Storage Temperature	-40	+80	$^\circ\text{C}$
$T_o$	Operating Temperature	-25	+80	$^\circ\text{C}$

**SCHEMATIC**



**ELECTRO-OPTICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	CHARACTERISTIC	CONDITION	660 nm			880 nm			UNITS
			MIN	TYP	MAX	MIN	TYP	MAX	
$P_o$	Radiant Flux*	$I_F=20\text{mA}$	1.2	2.0		0.7	1.5		mW
$V_F$	Forward Voltage	$I_F=20\text{mA}$		1.9	2.4		1.5	2.0	V
$V_R$	Reverse Breakdown	$I_F=-10\mu\text{A}$	5			5			V
$\lambda_p$	Peak Wavelength	$I_F=20\text{mA}$	657	660	663	870	880	890	nm
$\Delta\lambda$	Spectral Bandwidth	$I_F=20\text{mA}$		25			80		nm

\* Bare chip measured packaged in a flat TO-18/TO-46 header without resin coating or cap

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

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