

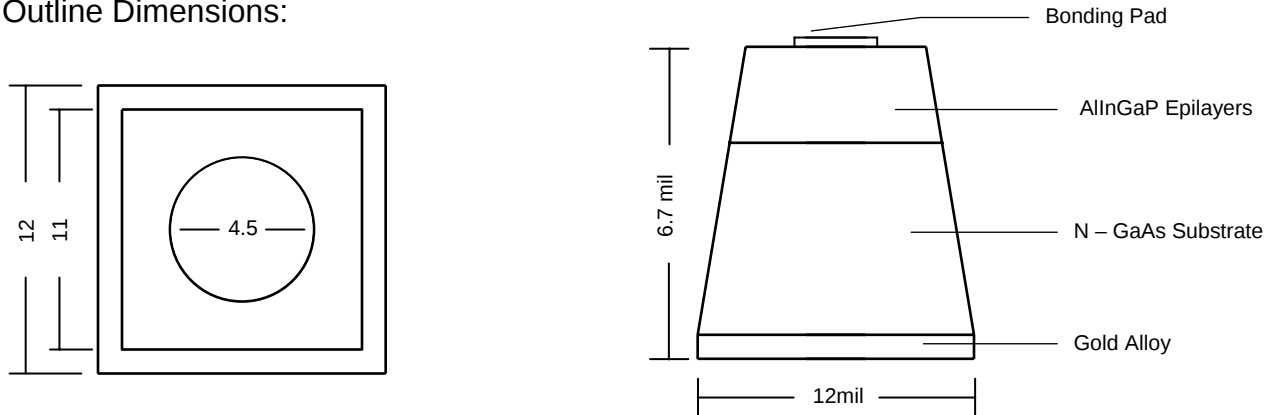
TCE12UOR



❖ Features:

- AlInGaP/GaAs LED Chips
- High luminous intensity / Long operation life
- Low current application; low power consumption
- Indoor/Outdoor applications

❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	12 mil x 12 mil	305 μm x 305 μm
		Thickness	6.7 mil	170 μm
		Emission area	11 mil	279 μm
		Bonding pad	4.5 mil	115 μm
Electrode	Top	P (anode)	Aluminium (Gold optional)	
	Backside	N (cathode)	Gold alloy	

❖ Electro-Optical Characteristics:

Parameter	Symb ol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 10\text{mA}$	1.35	-	-	V
		$I_F = 20\text{mA}$	-	2.00	2.40	
Wavelength	λ_P	$I_F = 20\text{mA}$		624		nm
	Hue	$I_F = 20\text{mA}$	613	618	623	
Spectral width at half height	$\Delta\lambda$	$I_F = 20\text{mA}$	-	18	-	nm
Reverse Current	I_R	$I_F = 20\text{mA}$	-	-	100	μA
Luminous Intensity	I_v	$I_F = 20\text{mA}$	50	60	-	mcd
			60	75	-	
			75	100	-	
			100	130	-	

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