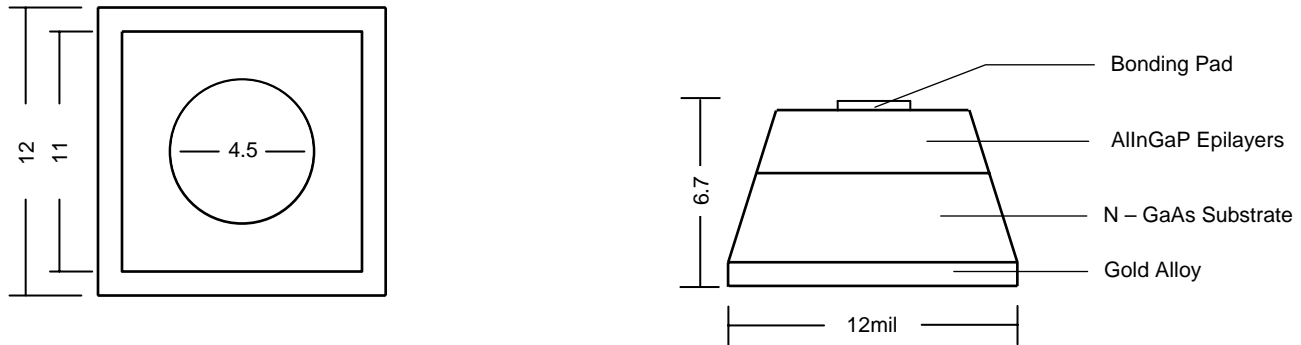


TCE12UOR-S

❖ Features:

- AllnGaP/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)	Gold alloy	
	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	$I_F = 20\text{mA}$	-	621	-	nm	
	Hue	$I_F = 20\text{mA}$	610	615	620		
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	$I_F = 20\text{mA}$	E6	90	-	-	mcd
			E7	110	-	-	
			E8	140	-	-	
			E9	170	-	-	
			E10	200	-	-	