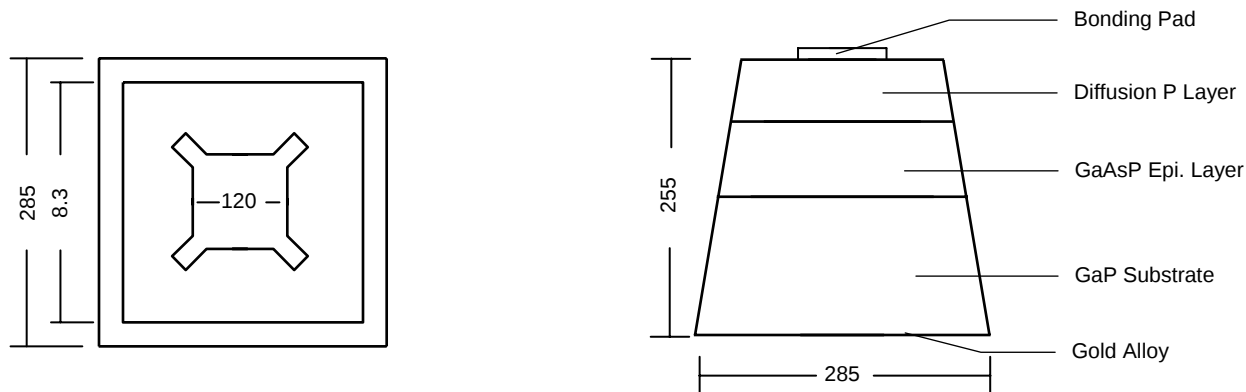


TCO12HR



❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	12 mil x 12 mil	285 μm x 285 μm
		Thickness	10 mil	255 μm
		Emission area	11 mil	270 μm
		Bonding pad	4.7 mil	120μm
Electrode	Top	P (anode)	Aluminium (Gold optional)	
	Backside	N (cathode)	Gold alloy	
Surface condition		Not frosted		

❖ Electro-Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	-	1.95	2.60	V
Reverse Current	I_R	$V_R = 5\text{V}$	-	-	10	μA
Wavelength	λ_P	$I_F = 20\text{mA}$	-	655	-	nm
	Hue	$I_F = 20\text{mA}$	-	637	-	
Spectral Width at Half Height	$\Delta\lambda$	$I_F = 20\text{mA}$	-	35	-	nm
Luminous Intensity	I_V	$I_F = 20\text{mA}$	6.0	-	-	mcd