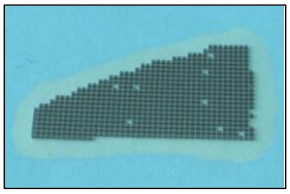
ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44 OFFICE@ROITHNER-LASER.COM

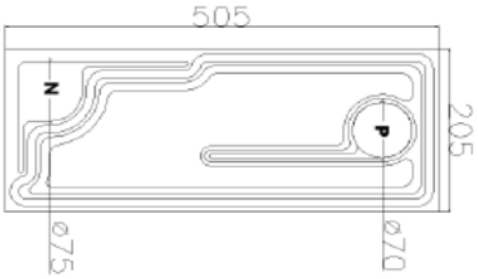
ELC-455-34

- **VIOLET LED bare chip die**
- **455 nm, 23 mW**
- **505 x 205 x120 µm**
- **GaN structure**
- **P + N side up**



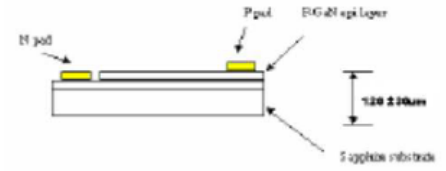
Description

ELC-455-34 is a BLUE LED bare chip die on sapphire substrate with GaN based epitaxial layers, and 70 µm Au alloy bonding pads. It is typically emitting at 455 nm with an optical output power of 23 mW. **ELC-455-34** is available with a MOQ of 100 pcs, and comes packed on adhesive film with wire-bond side on top



Maximum Rating

Parameter	Symbol	Values		Unit
		Min.	Max.	
Forward Current	I_F		20	mA
Peak Forward Current	I_{FP}		100	mA
Forward Voltage (100 mA)	V_F		4	V
Junction Temperature	T_J		+ 100	°C



Electro-Optical Characteristics (T_{CASE} = 25°C, I_F = 20 mA)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	λ_P		**455**		**nm**
Dominant Wavelength	λ_D		460		nm
Spectral Width (FWHM)	$\Delta\lambda$		30		nm
Forward Voltage	V_F		3.3	3.5	V
Reverse Current (V_R = 5V)	V_R			1	µA
Output Power	P_O	22		24	mW