



ELECTRONICS, INC.
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NTE30110 LED – Dual Color 3mm Red/Yellow Green

Features:

- Aluminum Gallium Indium Phosphide
- White Diffused Lens
- Low Power Consumption
- High Efficiency
- RoHS Compliant

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Power Dissipation, P_d	75mW
Continuous Forward Current, I_F	30mA
Derate Linearly Above $+50^\circ\text{C}$	0.4mA/ $^\circ\text{C}$
Peak Forward Current (1/10 Duty Ratio, 0.1ms Pulse Width), I_{FM}	100mA
Reverse Voltage, V_R	5V
Operating Temperature Range, T_{opr}	-40°C to $+85^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40°C to $+100^\circ\text{C}$
Lead Temperature (During Soldering, 4mm from body, 5sec max), T_L	$+260^\circ\text{C}$

Electro-Optical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity Red	I_v	$I_F = 20\text{mA}$	-	200	-	mcd
Yellow Green				110		mcd
View Angle of Half Power	$2\theta_{1/2}$	$I_F = 20\text{mA}$	-	40	-	deg
Peak Emission Wavelength Red	λ_p	$I_F = 20\text{mA}$	-	640	-	nm
Yellow Green				568		nm
Dominant Wave Length Red	λ_d	$I_F = 20\text{mA}$	630	635	640	nm
Yellow Green			567	572	577	nm
Spectral Line Half-Width	$\Delta\lambda_p$	$I_F = 20\text{mA}$	15	20	25	nm
Forward Voltage Red	V_F	$I_F = 20\text{mA}$	1.8	2.0	2.4	V
Yellow Green			1.8	2.3	2.6	V
Reverse Current	I_R	$V_R = 5\text{V}$	-	-	10	μA



