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| **Clear White** | **Clear Warm White** | **Clear Red** | **Clear Pale Red** |
|  |  |  |  |
| Vf = **3.0 – 3.2 V** If = **20** **mA**  Wavelength = **6000 – 9000 K**  L. Intensity = **12000 – 14000 mcd** | Vf = **3.0 – 3.2 V** If = **20** **mA**  Wavelength = **2800 – 3000 K**  L. Intensity = **14000 – 16000 mcd** | Vf = **2.0 – 2.2 V** If = **20** **mA**  Wavelength = **650 – 625 nm**  L. Intensity = **1000 – 3000 mcd** | Vf = **2.0 – 2.2 V** If = **20** **mA**  Wavelength = **650 – 625 nm**  L. Intensity = **1000 – 3000 mcd** |
| **Clear Green** | **Clear Pale Green** | **Foggy Green Yellow** | **Clear Blue** |
|  |  |  |  |
| Vf = **3.0 – 3.2 V** If = **20** **mA**  Wavelength = **515 – 525 nm**  L. Intensity = **15000 – 18000 mcd** | Vf = **2.0 –** **2.2 V** If = **20** **mA** | Vf = **2.0 – 2.2 V** If = **20** **mA**  Wavelength = **570 – 575 nm**  L. Intensity = **500 – 700 mcd** | Vf = **3.2 – 3.4 V** If = **20** **mA**  Wavelength = **420 – 455 nm**  L. Intensity = **6000 – 9000 mcd** |
| **Clear UV** | **Clear Pink** | **Clear Orange** | **Clear Amber** |
|  |  |  |  |
| Vf = **3.0 – 3.4 V** If = **30** **mA**  Wavelength = **395 – 400 nm**  L. Intensity = **300 – 400 mcd** | Vf = **3.0 – 3.2 V** If = **30** **mA**  Wavelength =  **– – – – –**  L. Intensity = **7000 – 8000 mcd** | Vf = **2.0 – 2.2 V** If = **20** **mA**  Wavelength = **602 – 610 nm**  L. Intensity = **1500 – 2000 mcd** | Vf = **2.0 – 2.2 V** If = **20** **mA**  Wavelength = **588 – 592 nm**  L. Intensity = **1500 – 2500 mcd** |
| **Clear Pale Amber** | **Auto Police R&B** | **Flickering Amber** | **Colored Foggy White** |
|  |  |  |  |
| Vf = **2.0 – 2.2 V** If = **20** **mA**  Wavelength = **588 – 592 nm**  L. Intensity = **1500 – 2500 mcd** |  | Vf = **2.0 – 2.2 V** If = **20** **mA** | Vf = **2.8 – 3.2 V** If = **20** **mA** |
| **Colored Foggy Red** | **Colored Foggy Blue** | **Colored Foggy Amber** | **Colored Foggy Green** |
|  |  |  |  |
| Vf= **2.0 – 2.2 V** If = **20** **mA** | Vf = **3.0 – 3.4 V** If = **20** **mA** | Vf = **2.0 – 2.2 V** If = **20** **mA** | Vf = **2.8 – 3.2 V** If = **20** **mA** |

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| --- | --- | --- | --- |
| **Clear White** | **Clear Red** | **Clear Blue** | **Clear Amber** |
|  |  |  |  |
| Vf = **2.8 – 3.2 V** If = **20** **mA** | Vf = **2.0 – 2.4 V** If = **20** **mA** | Vf = **2.8 – 3.2 V** If = **20** **mA** | Vf = **1.8 – 2.4 V** If = **20** **mA** |
| **Clear Green** |  |  |  |
|  |  |  |  |
| Vf = **3.0 – 3.2 V** If = **30** **mA** |  |  |  |
| **Auto R-G-B** | **Foggy R-G / C.A.** | **Clear R-G / C.K.** | **Foggy R-B / C.K.** |
|  |  |  |  |
| Vf = **3.2 – 3.5 V** If = **30** **– 40 mA** | Red Vf = **2.0 – 2.2 V** If = **20 mA**  Green Vf = **3.0 – 3.2 V** | Red Vf = **2.0 – 2.2 V** If = **20 mA**  Green Vf = **3.0 – 3.2 V** | Red Vf = **2.0 – 2.2 V** If = **20 mA**  Blue Vf = **3.2 – 3.4 V** |
| **Foggy R-G / C.K.** | **Foggy R-G-B / C.K.** | **Foggy R-G-B / C.A.** |  |
|  |  |  |  |
| Red Vf = **2.0 – 2.2 V** If = **20 mA**  Green Vf = **3.0 – 3.2 V** | Red Vf = **2.0 – 2.2 V** If = **20** **mA**  Green Vf = **3.0 – 3.2 V**  Blue Vf = **3.2 – 3.4 V** | Red Vf = **2.0 – 2.2 V** If = **20** **mA**  Green Vf = **3.0 – 3.2 V**  Blue Vf = **3.2 – 3.4 V** |  |
| **Clear Amber** | **Colored Foggy Green** | **Colored Foggy Red** | **Colored Foggy Blue** |
|  |  |  |  |
| Vf = **2.0 – 2.2 V** If = **20 mA** | Vf = **3.0 – 3.4 V** If = **20** **mA** | Vf = **1.8 – 2.4 V** If = **20 mA** | Vf = **3.0 – 3.4 V** If = **20** **mA** |

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| **Clear Foggy Amber** | **Clear White** | **Clear Green** | **Clear Red** |
|  |  |  |  |
| Vf = **2.0 – 2.2 V** If = **20 mA** | Vf = **3.0 – 3.4 V** If = **20 mA** | Vf = **3.0 – 3.4 V** If = **20 mA** | Vf = **1.8 – 2.4 V** If = **20** **mA** |
| **Clear Blue** | **Clear Amber** |  |  |
|  |  |  |  |
| Vf = **3.0 – 3.4 V** If = **20 mA** | Vf = **2.0 – 2.2 V** If = **20 mA** |  |  |
| **Clear R-YG / C.K.** | **Foggy R-YG / C.K.** | **Foggy R-YG / C.A.** | **Foggy R-B / C.A.** |
|  |  |  |  |
| Red Vf = **2.0 – 2.2 V** If = **20 mA**  Green Vf = **2.0 – 2.2 V** | Red Vf = **2.0 – 2.2 V** If = **20 mA**  Yellow-Green Vf = **2.0 – 2.2 V** | Red Vf = **2.0 – 2.2 V** If = **20 mA**  Yellow-Green Vf = **2.0 – 2.2 V** | Red Vf = **2.0 – 2.2 V** If = **20 mA**  Blue Vf = **3.0 – 3.4 V** |
| **Foggy R-B / C.K.** |  |  |  |
|  |  |  |  |
| Red Vf = **2.0 – 2.2 V** If = **20 mA**  Blue Vf = **3.0 – 3.4 V** |  |  |  |
| **0402 Pico Blue** | **0402 Pico Pink** | **0402 Pico Yellow** | **0402 Pico Green** |
|  |  |  |  |
| Vf = **3.2 – 3.4 V** If = **20** **mA**  λ = **460 – 565 nm**  Size = **0402/1005**  L. Intensity = **150 – 250 mcd**  SKU# = **12V0402PREWIREDBLUE** | Vf = **3.0 – 3.2 V** If = **20** **mA**  λ = **– – – – –**  Size = **0402/1005**  L. Intensity = **300 – 400 mcd**  SKU# = **12V0402PREWIREDPINK** | Vf = **2.0 – 2.2 V** If = **20** **mA**  λ = **590 – 595 nm** Size = **0402/1005**  L. Intensity = **150 – 250 mcd**  SKU# = **12V0402PREWIREDYELLOW** | Vf = **3.0 – 3.4 V** If = **20** **mA**  λ = **515 – 525 nm** Size = **0402/1005**  L. Intensity = **450 – 500 mcd**  SKU# = **12V0402PREWIREDPUREGREEN** |

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| **Clear Turquoise 30°** | **Cool White 0.3W 120°** | **Cool White 0.3W 110°** |  |
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| Vf = **3.0 – 3.6 V** If = **20** **mA**  Wavelength = **480 nm** V. Angle = **30°**  L. Intensity = **4000 mcd**  PN: **LC LED-300TN4D** | Vf = **2.95 V** If = **180** **mA**  CCT (K) = **5000 K** V. Angle = **120°**  L. Flux (ΦV) = **35 – 37 lm**  MPN: **SPMWHT541MP5WAR0S5** | Vf = **2.9 V** If = **1 A**  CCT (K) = **6200 K** V. Angle = **110°**  L. Flux (ΦV) = **100 lm**  MPN: **XPEBWT-L1-0000-00C51** |  |
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