# Kingbright<sup>®</sup>

## 10mm (0.4INCH) DUAL DIGIT NUMERIC DISPLAYS

DA04-11 DA04-14 DA04-11 DC04-14

### Features

- •0.4 INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- •EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •TWO DIGIT PACKAGE SIMPLIFIES ALIGNMENTS & ASSEMBLY.
- •I.C. COMPATIBLE.
- •CATEGORIZED FOR LUMINOUS INTENSITY,
- YELLOW AND GREEN CATEGORIZED FOR COLOR.
- •MECHANICALLY RUGGED.
- •STANDARD : GRAY FACE, WHITE SEGMENT.

#### Description

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

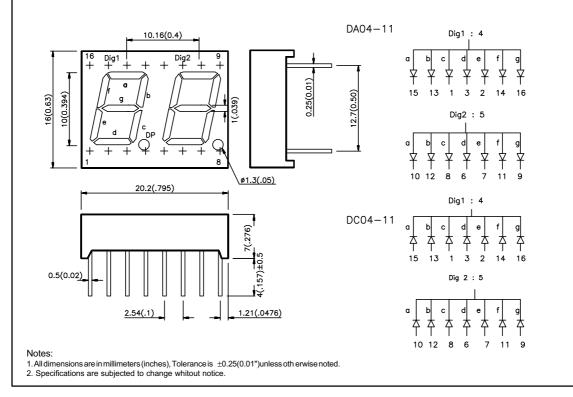
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The High Efficiency Red source color devices

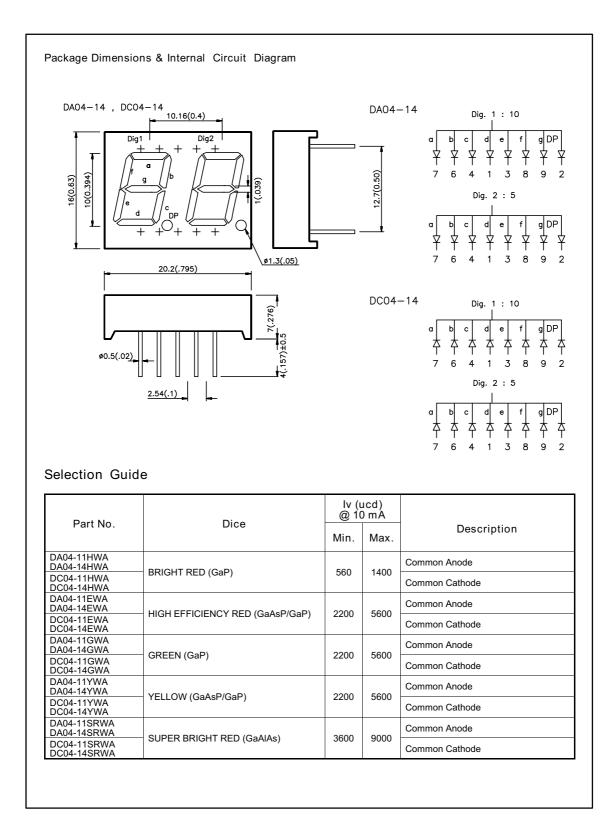
are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.



Package Dimensions & Internal Circuit Diagram



Symbol Parameter		Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Bright Red H igh Efficiency Red Green Yellow Super Bright Red	700 625 565 590 660		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow Super Bright Red	45 45 30 35 20		nm	IF=20mA	
С	Capacitance	Bright Red High Efficiency Red Green Yellow Super Bright Red	40 12 45 10 95		pF	VF=0V;f=1MHz	
V <sub>F</sub>	Forward Voltage	Bright Red High Efficiency Red Green Yellow Super Bright Red	2.0 2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5 2.5 2.5	V	IF=20mA	
I <sub>R</sub>	Reverse Current	All	10		uA	VR = 5V	

## Absolute Maximum Ratings at $T_{\text{A}}\text{=}25^{\circ}\text{C}$

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units		
Power dissipation	120	105	105	105	100	mW		
DC Forward Current	25	30	25	30	30	mA		
Peak Forward Current [1]	150	150	150	150	150	mA		
Reverse Voltage	5	5	5	5	5	V		
Operating/Storage Temperature	-40 ° C To +85 ° C							
Lead Soldering Temperature [2]	260 °C For 5 Seconds							

Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2.4mm below package base

