

# Change Notice

## KP Series

### Change to KP Series Bicolor LED Specifications

Type of Change:

- Engineering     Part Number  
 Product         Appearance

The KP01 and KP02 Series illuminated pushbutton switches will have changes to the LEDs. This change will affect the illumination of all KP models, both standard and custom. All of the bicolor KP models will have brighter, more vibrant illumination. Differences in the LED specification values are outlined on the table below.


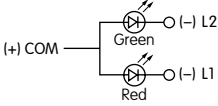


KP01



KP02

#### KP01 & KP02 Bicolor LED Specifications

 ATTENTION ELECTROSTATIC SENSITIVE DEVICES 	From Current LED Specifications		To New Super Bright LED Specifications		Unit	
	CF		6CF			
Colors	Red	Green	Red	Green		
Minimum Luminous Intensity	$I_V$	30	50	450	820	mcd
Standard Luminous Intensity	$I_V$	60	115	700	1100	mcd
Forward Peak Current	$I_{FM}$	30 (25 for Amber)	25 (22 for Amber)	30 (25 for Amber)	25 (22 for Amber)	mA
Continuous Forward Current	$I_F$	20	20	15	15	mA
Forward Voltage	$V_F$	2.1	3.5	2.1	3.2	V
Power Peak Dissipation	$P_D$	75	100	63	80	mW
Reverse Peak Voltage	$V_{RM}$	4	4	5	5	V
Wavelength at Peak Emission	$\lambda$	619~630	520~535	630 ~ 640	520 ~ 535	nm
Current Reduction Rate Above 25°C	$\Delta I_F$	0.38	0.32	0.40	0.36	mA/°C
Ambient Temperature Range		-25 ~ +50		-25 ~ +50		°C

Amber can be achieved by simultaneous illumination of Red & Green.

#### Notes

- The electrical specifications shown are determined at a basic temperature of 25°C.
- LEDs are an integral part of the switch and are not available separately.
- The LED circuit is isolated and requires an external power source.
- If the source voltage exceeds the rated voltage, a ballast resistor is required.
- The external resistor value will change with the new LED specifications.
- The changes to KP LED does not affect any external dimensions of the switches.
- For any further details, contact our sales department.

#### Availability

Change to KP Series bicolor LEDs will be effective with August 2010 production.

**NIKK**  
SWITCHES

www.nkkswitches.com  
1.877.2BUYNKK (228.9655)

7850 East Gelding Drive • Scottsdale, AZ 85260  
Telephone 480.991.0942 • Fax 480.998.1435