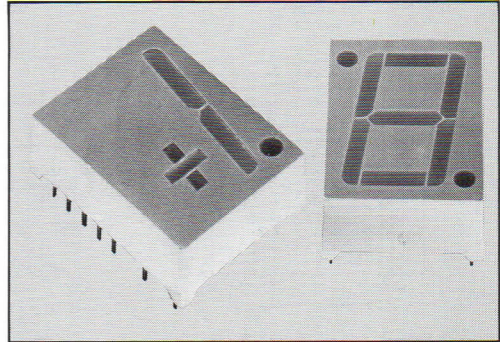


# GENERAL INSTRUMENT

## HIGH EFFICIENCY RED (ORANGE) MAN8600 SERIES

### FEATURES

- High performance nitrogen-doped GaAsP on GaP
- Large, easy to read, digits
- Common anode or common cathode models
- Fast switching—excellent for multiplexing
- Low power consumption
- Bold solid segments that are highly legible
- Solid state reliability—long operation life
- Rugged plastic construction
- Directly compatible with integrated circuits
- High brightness with high contrast
- Categorized for luminous intensity (see note 6)
- Wide angle viewing . . . 150°
- Low forward voltage
- Gray face for use in high ambient light conditions



### APPLICATIONS

For industrial and consumer applications such as:

- Digital readout displays
- Instrument panels
- Point-of-sale equipment
- Digital clocks
- TV and radios

### DESCRIPTION

The MAN8600 Series is a family of large digits 0.8 inches in height. This series combines high brightness large size and good aesthetics and is designed to be used where accurate readable displays need to be viewed over a distance. All models use right hand decimal points. Units are constructed with grey face and neutral segment color.

### MODEL NUMBERS

PART NO.	COLOR	DESCRIPTION	PACKAGE DRAWING
MAN8610	Hi-Efficiency Red (Orange)	Common Anode, Right Hand Decimal Pt.	II
MAN8630	Hi-Efficiency Red (Orange)	Common Anode, ± 1 Overflow Right Hand Decimal Pt.	I
MAN8640	Hi-Efficiency Red (Orange)	Common Cathode, Right Hand Decimal Pt.	II
MAN8650	Hi-Efficiency Red (Orange)	Common Cathode, ± 1 Overflow, Right Hand Decimal Pt.	I

### FILTER RECOMMENDATIONS

For optimum on and off contrast, one of the following filters should be used over the display:

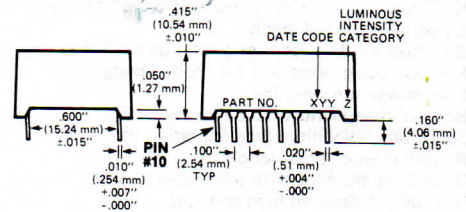
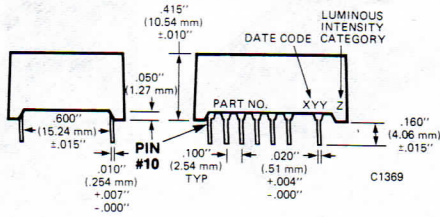
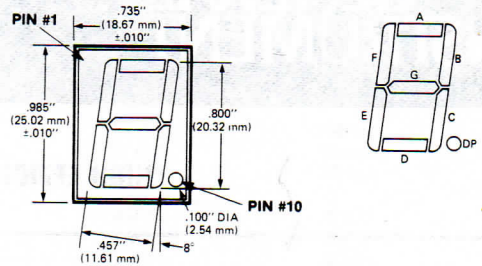
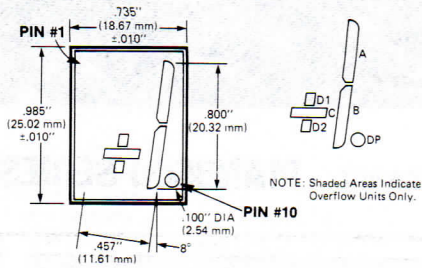
PANELGRAPHIC SCARLET 65  
HOMALITE 100-1670

In situations of high ambient light, contrast with the gray face can be enhanced by using a neutral density filter. The following or an equivalent can be used:

PANELGRAPHIC GREY NO. 10

# MAN8600 SERIES

## PACKAGE DIMENSIONS



C1370

## PIN CONNECTIONS

ELECTRICAL CONNECTIONS				
	MAN8610	MAN8630	MAN8640	MAN8650
	Digit	± Overflow	Digit	± Overflow
	Common Anode	Common Anode	Common Cathode	Common Cathode
PIN #	Package Dimensions II	Package Dimensions I	Package Dimensions II	Package Dimensions I
1	No Connection	No Connection	No Connection	No Connection
2	A Cathode	No Connection	A Anode	No Connection
3	F Cathode	No Connection	F Anode	No Connection
4	Common Anode	Common Anode	Common Cathode	Common Cathode
5	E Cathode	C Cathode	E Anode	C Anode
6	—	—	—	—
7	E Cathode	C Cathode	E Anode	C Anode
8	—	—	—	—
9	D Cathode	D2 Cathode	Common Cathode	Common Cathode
10	DP Cathode	DP Cathode	DP Anode	DP Anode
11	D Cathode	D2 Cathode	D Anode	D2 Anode
12	Common Anode	Common Anode	Common Cathode	Common Cathode
13	C Cathode	B Cathode	C Anode	B Anode
14	G Cathode	D1 Cathode	G Anode	D1 Anode
15	B Cathode	A Cathode	B Anode	A Anode
16	—	—	—	—
17	Common Anode	Common Anode	Common Cathode	Common Cathode
18	—	—	—	—