

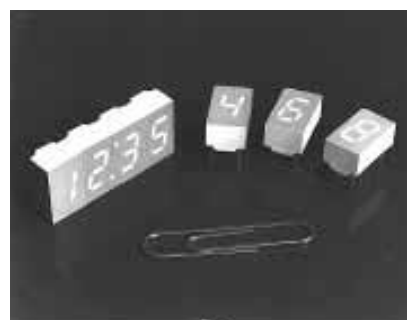
7.6 mm (0.3 inch) Micro Bright Seven Segment Displays

Technical Data

HDSP-730X Series
 HDSP-731X Series
 HDSP-740X Series
 HDSP-750X Series
 HDSP-780X Series
 HDSP-A15X Series

Features

- Available with Colon for Clock Display
- Compact Package
0.300 x 0.500 inches
Leads on 2.54 mm (0.1 inch) Centers
- Choice of Colors
Red, AlGaAs Red, High Efficiency Red, Yellow, Green
- Excellent Appearance
Evenly Lighted Segments
Mitered Corners on Segments
Surface Color Gives Optimum Contrast
± 50° Viewing Angle
- Design Flexibility
Common Anode or Common Cathode
- Right Hand Decimal Point
± 1. Overflow Character
- Categorized for Luminous Intensity
Yellow and Green Categorized for Color
Use of Like Categories Yields a Uniform Display
- High Light Output
- High Peak Current
- Excellent for Long Digit String Multiplexing
- Intensity and Color Selection Available
See Intensity and Color Selected Displays Data Sheet
- Sunlight Viewable AlGaAs



Description

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. Both the numeric and

Devices

Red HDSP-	AlGaAs ^[1] HDSP-	HER ^[1] HDSP-	Yellow ^[1] HDSP-	Green ^[1] HDSP-	Description	Package Drawing
7301	A151	7501	7401	7801	Common Anode Right Hand Decimal	A
7302		7502	7402	7802	Common Anode Right Hand Decimal, Colon	B
7303	A153	7503	7403	7803	Common Cathode Right Hand Decimal	C
7304		7504	7404	7804	Common Cathode Right Hand Decimal, Colon	D
7307	A157	7507	7407	7807	Common Anode ± 1. Overflow	E
7308	A158	7508	7408	7808	Common Cathode ± 1. Overflow	F

Note:

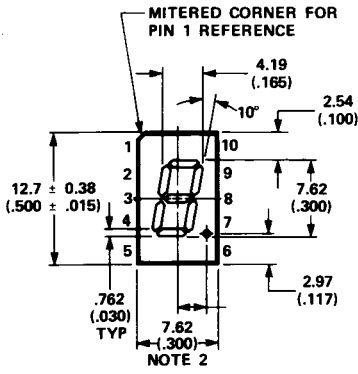
1. These displays are recommended for high ambient light operation. Please refer to the HDSP-A10X AlGaAs, HDSP-335X HER, HDSP-A80X Yellow, and HDSP-A90X Green data sheet for low current operation.

± 1. overflow devices feature a right hand decimal point. All devices are available as either common anode or common cathode.

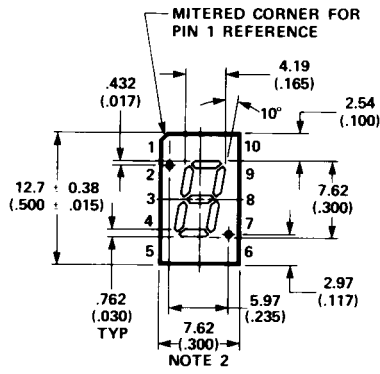
These displays are ideal for most applications. Pin for pin equivalent displays are also available in a low current design. The low current displays are ideal for

portable applications. For additional information see the Low Current Seven Segment Displays.

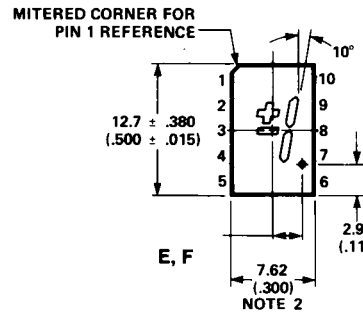
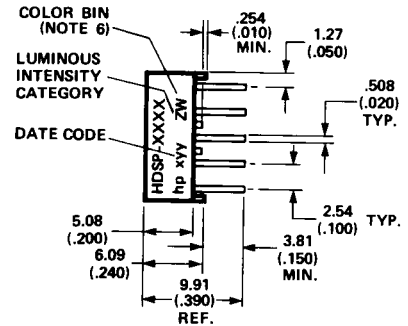
Package Dimensions



A, C



B, D

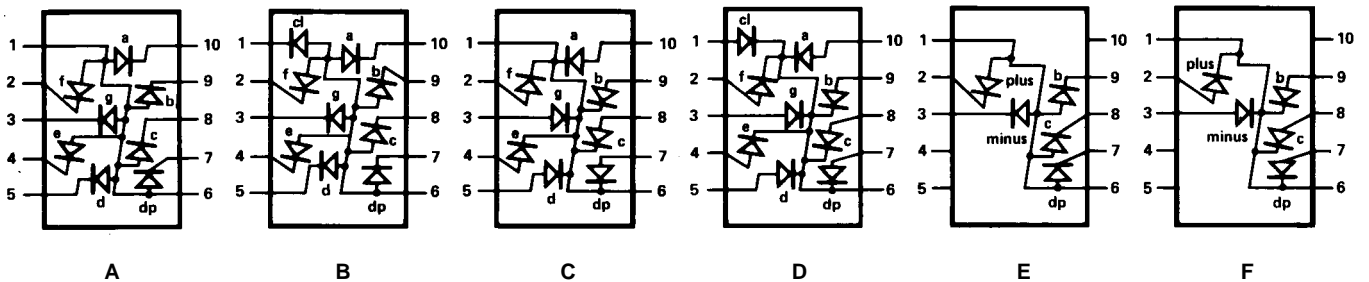


E, F

- NOTES:
 1. ALL DIMENSIONS IN MILLIMETRES (INCHES).
 2. MAXIMUM.
 3. ALL UNTOLERANCED DIMENSIONS ARE FOR REFERENCE ONLY.
 4. REDUNDANT ANODES.
 5. REDUNDANT CATHODES.
 6. FOR HDSP-7400/7800 SERIES PRODUCT ONLY.

PIN	FUNCTION					
	A	B	C	D	E	F
1	ANODE ^[4]	CATHODE COLON	CATHODE ^[5]	ANODE COLON	ANODE ^[4]	CATHODE ^[5]
2	CATHODE f	CATHODE f	ANODE f	ANODE f	CATHODE PLUS	ANODE PLUS
3	CATHODE g	CATHODE g	ANODE g	ANODE g	CATHODE MINUS	ANODE MINUS
4	CATHODE e	CATHODE e	ANODE e	ANODE e	NC	NC
5	CATHODE d	CATHODE d	ANODE d	ANODE d	NC	NC
6	ANODE ^[4]	ANODE	CATHODE ^[5]	CATHODE	ANODE ^[4]	CATHODE ^[5]
7	CATHODE DP	CATHODE DP	ANODE DP	ANODE DP	CATHODE DP	ANODE DP
8	CATHODE c	CATHODE c	ANODE c	ANODE c	CATHODE c	ANODE c
9	CATHODE b	CATHODE b	ANODE b	ANODE b	CATHODE b	ANODE b
10	CATHODE a	CATHODE a	ANODE a	ANODE a	NC	NC

Internal Circuit Diagram



Absolute Maximum Ratings

Description	Red HDSP-7300 Series	AlGaAs Red HDSP-A150 Series	HER HDSP-7500 Series	Yellow HDSP-7400 Series	Green HDSP-7800 Series	Units
Average Power per Segment or DP	82	96	105	80	105	mW
Peak Forward Current per Segment or DP	150 ^[1]	160 ^[3]	90 ^[5]	60 ^[7]	90 ^[9]	mA
DC Forward Current per Segment or DP	25 ^[2]	40 ^[4]	30 ^[6]	20 ^[8]	30 ^[10]	mA
Operating Temperature Range	-40 to +100	-20 to +100 ^[11]	-40 to +100			°C
Storage Temperature Range	-55 to +100					°C
Reverse Voltage per Segment or DP	3.0					V
Lead Solder Temperature for 3 Seconds (1.60 mm [0.063 in.] below seating plane)	260					°C

Notes:

- See Figure 1 to establish pulsed conditions.
- Derate above 80°C at 0.63 mA/°C.
- See Figure 2 to establish pulsed conditions.
- Derate above 46°C at 0.54 mA/°C.
- See Figure 7 to establish pulsed conditions.
- Derate above 53°C at 0.45 mA/°C.
- See Figure 8 to establish pulsed conditions.
- Derate above 81°C at 0.52 mA/°C.
- See Figure 9 to establish pulsed conditions.
- Derate above 39°C at 0.37 mA/°C.
- For operation below -20°C, contact your local HP components sales office or an authorized distributor.

Electrical/Optical Characteristics at $T_A = 25^\circ\text{C}$

Red

Device Series HDSP-	Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
730X	Luminous Intensity/Segment ^[1,2] (Digit Average)	I_V	600	1100		μcd	$I_F = 20\text{ mA}$
				500			$I_F = 10\text{ mA}$
All	Forward Voltage/Segment or DP	V_F		1.6	2.0	V	$I_F = 20\text{ mA}$
	Peak Wavelength	λ_{PEAK}		655		nm	
	Dominant Wavelength ^[3]	λ_d		640		nm	
	Reverse Voltage/Segment or DP ^[4]	V_R	3.0	12		V	$I_R = 100\text{ mA}$
	Temperature Coefficient of V_F /Segment or DP	$\Delta V_F / ^\circ\text{C}$		-2		mV/°C	
	Thermal Resistance LED Junction-to-Pin	$R_{\theta\text{J-PIN}}$		200		°C/W/Seg	

AlGaAs Red

Device Series HDSP-	Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
A15X	Luminous Intensity/Segment ^[1,2,5] (Digit Average)	I_V	6.9	14.0		mcd	$I_F = 20 \text{ mA}$
	Forward Voltage/Segment or DP	V_F		1.8		V	$I_F = 20 \text{ mA}$
				2.0	3.0	V	$I_F = 100 \text{ mA}$
	Peak Wavelength	λ_{PEAK}		645		nm	
	Dominant Wavelength ^[3]	λ_d		637		nm	
	Reverse Voltage/Segment or DP ^[4]	V_R	3.0	15.0		V	$I_R = 100 \mu\text{A}$
	Temperature Coefficient of V_F /Segment or DP	$\Delta V_F/^\circ\text{C}$		-2		mV/°C	
Thermal Resistance LED Junction-to-Pin	$R\theta_{\text{J-PIN}}$		255		°C/W/Seg		

High Efficiency Red

Device Series HDSP-	Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
750X	Luminous Intensity/Segment ^[1,2,6] (Digit Average)	I_V	360	980		μcd	$I_F = 5 \text{ mA}$
				5390			$I_F = 20 \text{ mA}$
	Forward Voltage/Segment or DP	V_F		2.0	2.5	V	$I_F = 20 \text{ mA}$
	Peak Wavelength	λ_{PEAK}		635		nm	
	Dominant Wavelength ^[3]	λ_d		626		nm	
	Reverse Voltage/Segment or DP ^[4]	V_R	3.0	30		V	$I_R = 100 \mu\text{A}$
	Temperature Coefficient of V_F /Segment or DP	$\Delta V_F/^\circ\text{C}$		-2		mV/°C	
Thermal Resistance LED Junction-to-Pin	$R\theta_{\text{J-PIN}}$		200		°C/W/Seg		

Yellow

Device Series HDSP-	Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
740X	Luminous Intensity/Segment ^[1,2,7] (Digit Average)	I_V	225	480		μcd	$I_F = 5 \text{ mA}$
				2740			$I_F = 20 \text{ mA}$
	Forward Voltage/Segment or DP	V_F		2.2	2.5	V	$I_F = 20 \text{ mA}$
	Peak Wavelength	λ_{PEAK}		583		nm	
	Dominant Wavelength ^[3,9]	λ_d	581.5	586	592.5	nm	
	Reverse Voltage/Segment or DP ^[4]	V_R	3.0	50.0		V	$I_R = 100 \mu\text{A}$
	Temperature Coefficient of V_F /Segment or DP	$\Delta V_F/^\circ\text{C}$		-2		mV/°C	
Thermal Resistance LED Junction-to-Pin	$R\theta_{\text{J-PIN}}$		200		°C/W/Seg		

High Performance Green

Device Series HDSP-	Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
780X	Luminous Intensity/Segment ^[1,2,8] (Digit Average)	I_V	860	3000		μcd	$I_F = 10 \text{ mA}$
				6800			$I_F = 20 \text{ mA}$
	Forward Voltage/Segment or DP	V_F		2.1	2.5	V	$I_F = 10 \text{ mA}$
	Peak Wavelength	λ_{PEAK}		566		nm	
	Dominant Wavelength ^[3,9]	λ_d		571	577	nm	
	Reverse Voltage/Segment or DP ^[4]	V_R	3.0	50.0		V	$I_R = 100 \mu\text{A}$
	Temperature Coefficient of V_F /Segment or DP	$\Delta V_F/^\circ\text{C}$		-2		mV/°C	
Thermal Resistance LED Junction-to-Pin	$R\theta_{\text{J-PIN}}$		200		°C/W/Seg		

Notes:

- Case temperature of device immediately prior to the intensity measurement is 25°C.
- The digits are categorized for luminous intensity. The intensity category is designated by a letter on the side of the package.
- The dominant wavelength, λ_d , is derived from the CIE chromaticity diagram and is that single wavelength which defines the color of the device.
- Typical specification for reference only. Do not exceed absolute maximum ratings.
- For low current operation the AlGaAs HDSP-A101 series displays are recommended.
- For low current operation the HER HDSP-7511 series displays are recommended.
- For low current operation the Yellow HDSP-A801 series displays are recommended.
- For low current operation the Green HDSP-A901 series displays are recommended.
- The yellow (HDSP-7400) and Green (HDSP-7800) displays are categorized for dominant wavelength. The category is designated by a number adjacent to the luminous intensity category letter.

Red, AlGaAs Red

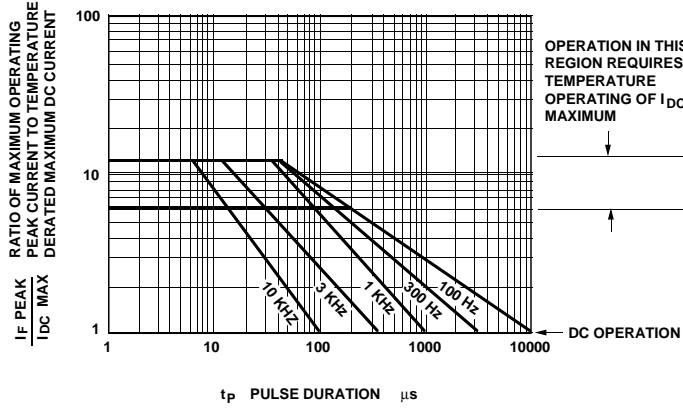


Figure 1. Maximum Tolerable Peak Current vs. Pulse Duration - Red.

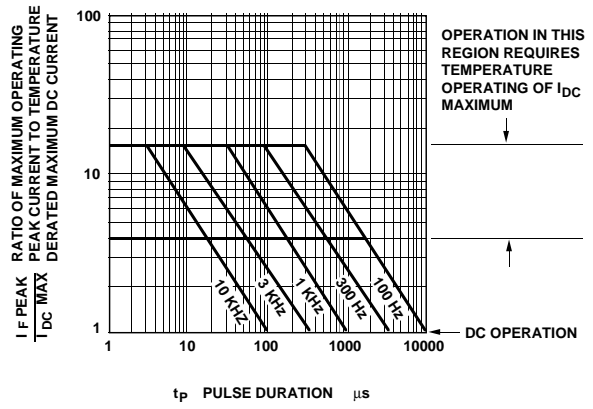


Figure 2. Maximum Allowed Peak Current vs. Pulse Duration - AlGaAs Red.

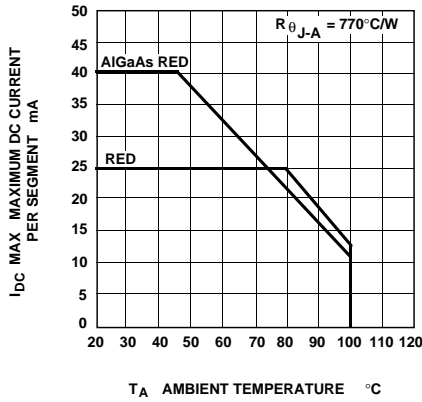


Figure 3. Maximum Allowable DC Current per Segment as a Function of Ambient Temperature.

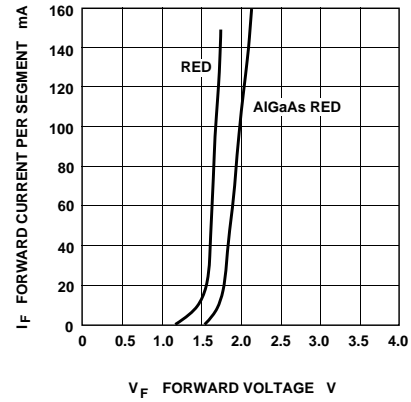


Figure 4. Forward Current vs. Forward Voltage.

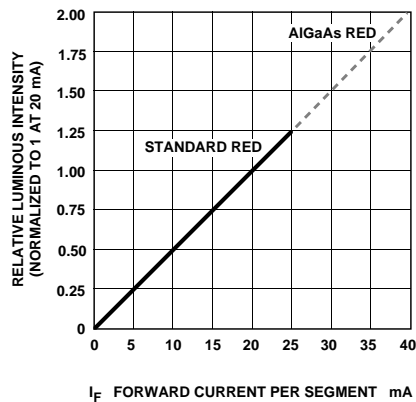


Figure 5. Relative Luminous Intensity vs. DC Forward Current.

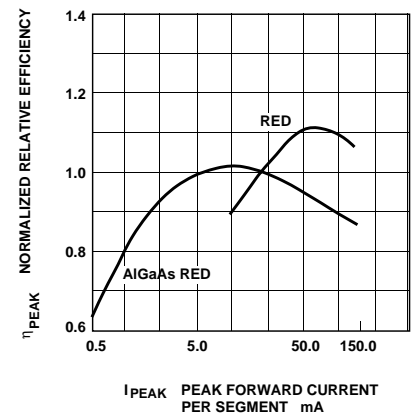


Figure 6. Relative Efficiency (Luminous Intensity per Unit Current) vs. Peak Current.

HER, Yellow, Green

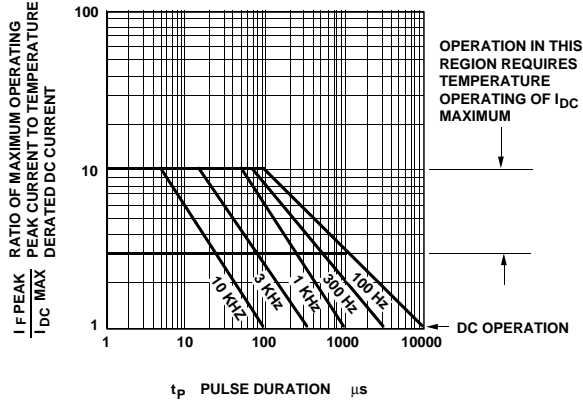


Figure 7. Maximum Tolerable Peak Current vs. Pulse Duration - HER.

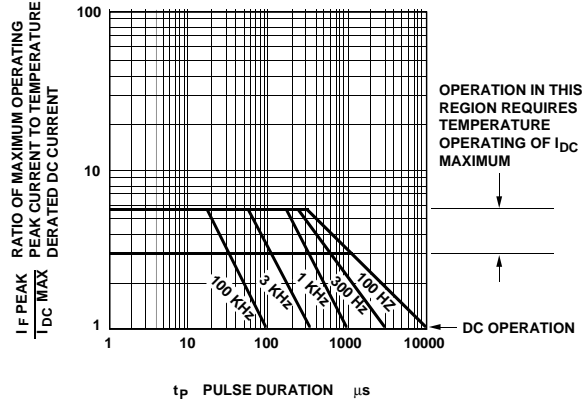


Figure 8. Maximum Tolerable Peak Current vs. Pulse Duration - Yellow.

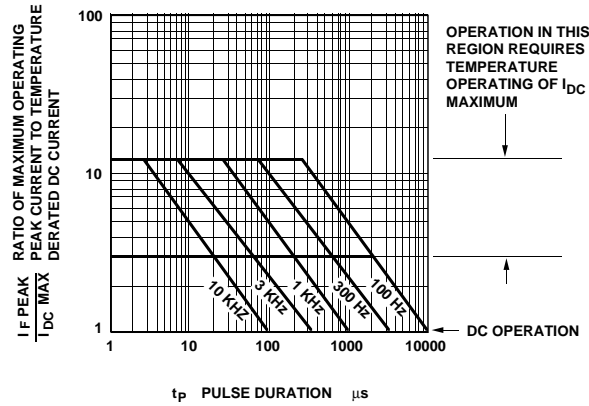


Figure 9. Allowable Peak Current vs. Pulse Duration - Green.

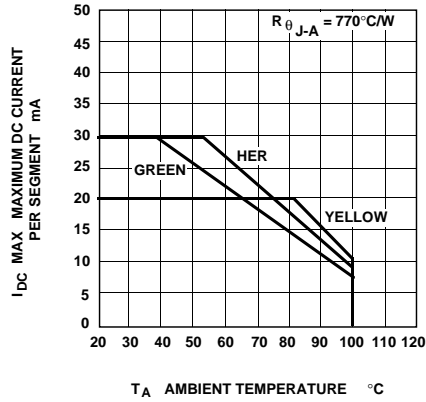


Figure 10. Maximum Allowable DC Current per Segment as a Function of Ambient Temperature.

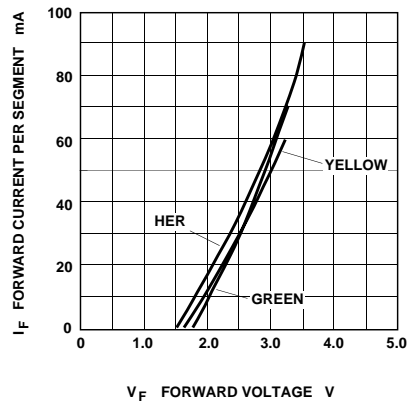


Figure 11. Forward Current vs. Forward Voltage Characteristics.

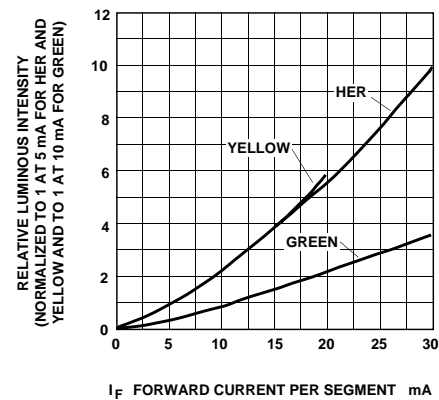


Figure 12. Relative Luminous Intensity vs. DC Forward Current.

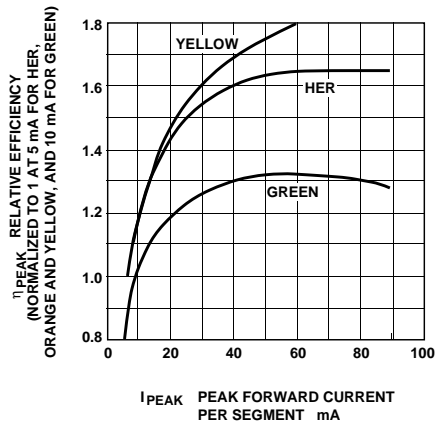


Figure 13. Relative Efficiency (Luminous Intensity per Unit Current) vs. Peak Current.

Contrast Enhancement

For information on contrast enhancement please see Application Note 1015.

Soldering/Cleaning

Cleaning agents from the ketone family (acetone, methyl ethyl ketone, etc.) and from the chlorinated hydrocarbon family (methylene chloride, trichloroethylene, carbon tetrachloride, etc.) are not recommended for cleaning LED parts. All of these various solvents attack or dissolve the encapsulating epoxies used to form the package of plastic LED parts.

For further information on soldering LEDs please refer to Application Note 1027.

www.hp.com/go/led_displays

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Obsoletes 5954-0943 (3/86)

Printed in U.S.A. 5091-6834E (1/98)

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HDSP-7503-CD000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:HER
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Cathode device with Right Hand Decimal Point
- Categorized for Luminous Intensity
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common cathode device. These displays are ideal for most applications.

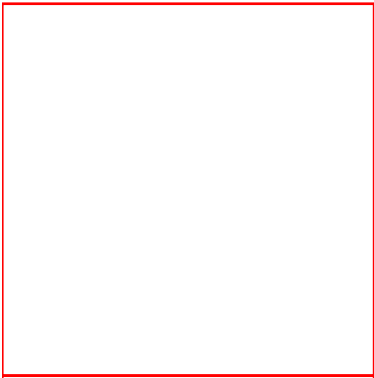
Application Notes

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AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices | 100 KB
pdf | <input type="button" value="Clid"/> <input type="button" value="Clid"/> |
| <input type="checkbox"/> Application Note:
AN 1005 - Operational considerations for LED lamps and display devices | 62 KB
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	<input type="button" value="Click"/> <input type="button" value="Click"/>



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Product Information and Literature

HDSP-7502-CD000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:HER
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Anode device with Right Hand Decimal Point with Colon
- Categorized for Luminous Intensity
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common anode device. These displays are ideal for most applications.

Application Notes

Application Note: AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices	100 KB pdf	Clid	Clid
Application Note: AN 1005 - Operational considerations for LED lamps and display devices	62 KB pdf	Clid	Clid

Data Sheets & Technical Specifications

Datasheet: HDSP-/740X/750X780x/A151/A40x - 7.6 mm (0.3 inch) Micro Bright Seven Segment Displays	224 KB pdf	Clid	Clid
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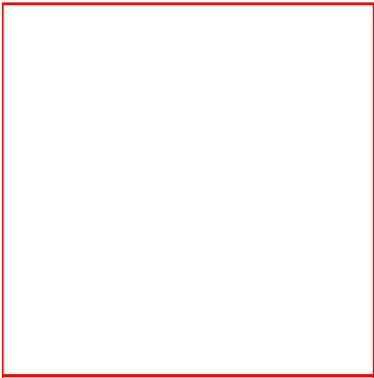
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	Click Click



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Product Information and Literature

HDSP-7507-CD000

7.6 mm(0.3 inch) Micro Bright Overflow Character Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:HER
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Anode device
- Categorized for Luminous Intensity
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices is a common anode device.

These displays are ideal for most applications.

Application Notes

Application Note: AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices	100 KB pdf	Clid	Clid
Application Note: AN 1005 - Operational considerations for LED lamps and display devices	62 KB pdf	Clid	Clid

Data Sheets & Technical Specifications

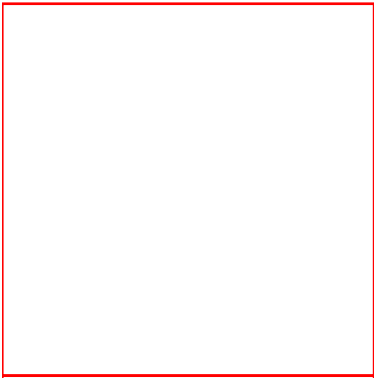
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	Click Click



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HDSP-7802-JK000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:Green
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Dark Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Anode device with Right Hand Decimal Point with Colon
- Categorized for Luminous Intensity
Green categorized for color
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common anode device. These displays are ideal for most applications.

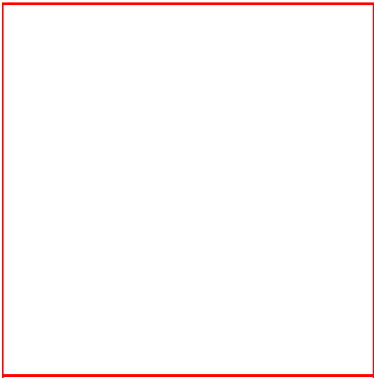
Application Notes

- | | | |
|--|-----------------------|--|
| <p>□ Application Note:
AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices</p> | <p>100 KB
pdf</p> | <p>Clid Clid</p> |
| <p>□ Application Note:
AN 1005 - Operational considerations for LED lamps and display devices</p> | <p>62 KB
pdf</p> | <p>Clid Clid</p> |

Data Sheets & Technical Specifications

- | | | |
|---|---------------------------|--|
| <p>□ Datasheet:
HDSP-/740X/750X780x/A151/A40x - 7.6 mm (0.3 inch) Micro Bright Seven Segment Displays</p> | <p>224
KB
pdf</p> | <p>Clid Clid</p> |
|---|---------------------------|--|

Product Notifications			
<input type="checkbox"/>	CCN: HP19990301-01: Change leadframe base materials from copper to mildsteel for 0.3M, 0.4S, 0.56D, 0.4D & 0.56S pkgs.	KB pdf	Click Click
Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	Click Click



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HDSP-7803-JK000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:Green
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Dark Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Cathode device with Right Hand Decimal Point
- Categorized for Luminous Intensity
Green categorized for color
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common cathode device. These displays are ideal for most applications.

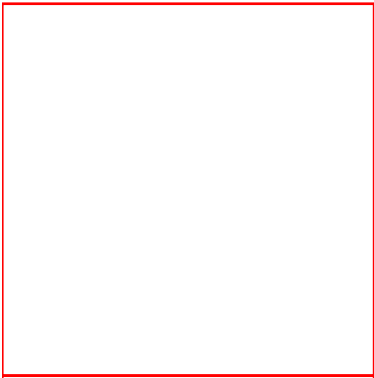
Application Notes

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| <p>□ Application Note:
AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices</p> | <p>100 KB
pdf</p> | <p>Clid Clid</p> |
| <p>□ Application Note:
AN 1005 - Operational considerations for LED lamps and display devices</p> | <p>62 KB
pdf</p> | <p>Clid Clid</p> |

Data Sheets & Technical Specifications

- | | | |
|---|---------------------------|--|
| <p>□ Datasheet:
HDSP-/740X/750X780x/A151/A40x - 7.6 mm (0.3 inch) Micro Bright Seven Segment Displays</p> | <p>224
KB
pdf</p> | <p>Clid Clid</p> |
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Product Notifications			
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	Click Click



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HDSP-A151-NO000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:AlGaAs
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Anode device with Right Hand Decimal Point
- Categorized for Luminous Intensity
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common anode device. These displays are ideal for most applications.

Application Notes

Application Note: AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices	100 KB pdf	Clid	Clid
Application Note: AN 1005 - Operational considerations for LED lamps and display devices	62 KB pdf	Clid	Clid

Data Sheets & Technical Specifications

Datasheet: HDSP-/740X/750X780x/A151/A40x - 7.6 mm (0.3 inch) Micro Bright Seven Segment Displays	224 KB pdf	Clid	Clid
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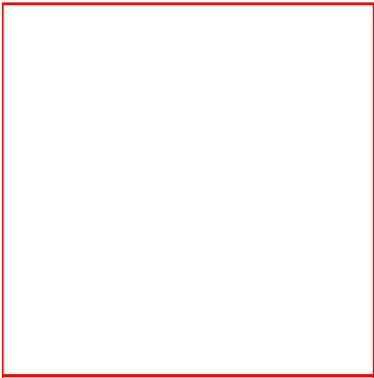
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	Click Click



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Product Information and Literature

HDSP-A153-NO000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:AlGaAs
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Cathode device with Right Hand Decimal Point
- Categorized for Luminous Intensity
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common cathode device. These displays are ideal for most applications.

Application Notes

Application Note: AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices	100 KB pdf	Clid	Clid
Application Note: AN 1005 - Operational considerations for LED lamps and display devices	62 KB pdf	Clid	Clid

Data Sheets & Technical Specifications

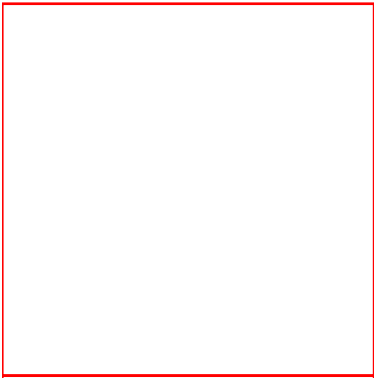
Datasheet: HDSP-/740X/750X780x/A151/A40x - 7.6 mm (0.3 inch) Micro Bright Seven Segment Displays	224 KB pdf	Clid	Clid
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	<input type="button" value="Click"/> <input type="button" value="Click"/>



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HDSP-7401-DE000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color: Yellow
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Anode device with Right Hand Decimal Point
- Categorized for Luminous Intensity
Yellow categorized for color
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common anode device. These displays are ideal for most applications.

Application Notes

Application Note: AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices	100 KB pdf	Clid	Clid
Application Note: AN 1005 - Operational considerations for LED lamps and display devices	62 KB pdf	Clid	Clid

Data Sheets & Technical Specifications

Datasheet: HDSP-/740X/750X780x/A151/A40x - 7.6 mm (0.3 inch) Micro Bright Seven Segment Displays	224 KB pdf	Clid	Clid
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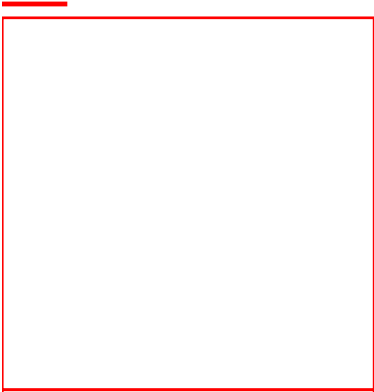
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HDSP-7403-DE000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color: Yellow
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Cathode device with Right Hand Decimal Point
- Categorized for Luminous Intensity
Yellow categorized for color
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common cathode device. These displays are ideal for most applications.

Application Notes

Application Note: AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices	100 KB pdf	Clid	Clid
Application Note: AN 1005 - Operational considerations for LED lamps and display devices	62 KB pdf	Clid	Clid

Data Sheets & Technical Specifications

Datasheet: HDSP-/740X/750X780x/A151/A40x - 7.6 mm (0.3 inch) Micro Bright Seven Segment Displays	224 KB pdf	Clid	Clid
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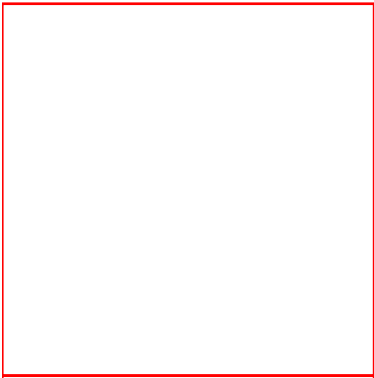
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	<input type="button" value="Click"/> <input type="button" value="Click"/>



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HDSP-7501-CD000

7.6 mm(0.3 inch) Micro Bright Seven Segment Displays**LIFE CYCLE STATUS**

AC - Active

This product is Market released and in full production

FEATURES

- Compact Package
 1. 0.300 x 0.500 inches
 2. Leads on 2.54 mm (0.1 inch) Centers
- Choice of Color:HER
- Excellent Appearance
 1. Evenly Lighted Segments
 2. Mitered Corners on Segments
 3. Light Gray Surface Color Gives Optimum Contrast
 4. 1500 Viewing Angle
- Design Flexibility
This is a Common Anode device with Right Hand Decimal Point
- Categorized for Luminous Intensity
Use of Like Categories Yields a Uniform Display
- High Light Output
- Excellent for Long Digit String Multiplexing

DESCRIPTION

The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet). These devices use an industry standard size package and pinout. The numeric devices feature a right hand decimal point. This is a common anode device. These displays are ideal for most applications.

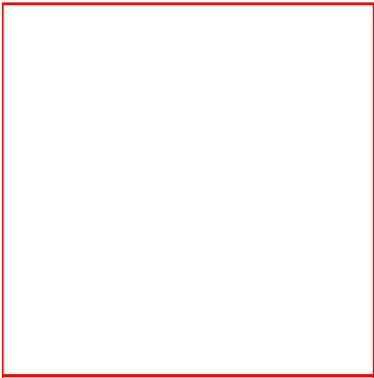
Application Notes

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AN 1031- Achieving Uniform Front Panel Appearance using 2 Intensity Bin Select Option for LED Devices | 100 KB
pdf | <input type="button" value="Clid"/> <input type="button" value="Clid"/> |
| <input type="checkbox"/> Application Note:
AN 1005 - Operational considerations for LED lamps and display devices | 62 KB
pdf | <input type="button" value="Clid"/> <input type="button" value="Clid"/> |

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pdf | <input type="button" value="Clid"/> <input type="button" value="Clid"/> |
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Reliability Materials			
<input type="checkbox"/>	Reliability Data: Seven Segment Displays - 10 mm, 10mm Slim Font, 10.9 mm, 14.2 mm, 13 mm and 13 mm Slim Font Reliability Data	46 KB pdf	Click Click



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