

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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BABCOCK

DISPLAY PRODUCTS DIVISION

MODEL: SP-450-034-XX XX denotes dash numbers below

7-SEGMENTED SCREEN IMAGE, PDP

The dc-plasma, easy-to-read, 7-Segment Screen Image Display's is arranged as 5 digits by 1 row and features bright neon-orange pixels, wide viewing angle, and sharp contrast. The slim profile, compact outline, and large viewing area make efficient use of valuable system, front panel space. Inherently rugged, dc-plasma displays are a cost-effective solution when overcoming vibration, temperature, or EMI/RFI issues.

SPECIFICATIONS

Recommended Operating Conditions

PARAMETER	SYM	MIN	TYP	MAX	UNITS	NOTES
Supply Voltage	E_{bb}	165	185	200	VDC	1
Operating Voltage @ 2.2 mA b" Segment	V_{op}		140		VDC	1
Interdigit Blanking Period (Segment 'b"	t_{kb}	30	60		μSec	
current 2 mA max)					·	
Digit 'On' Period	t_{on}	60			μSec	1
Reionization Time	t_{zr}			7	μSec	1
Heater Resistance @ 25° C		78		100	Ohms	
Peak Segment Current Density				100	mA/cm ²	
Leakage, Anode to Anode		3			M-Ohms	3
Leakage, Heater to all Segments		3			M-Ohms	3
Projected Life		18K			Hours	2
Intersegmented Leakage		3			M-Ohms	4
View Angle		130			Degrees	
Luminance @ 25°C	fL	180 (616)	240 (812)	300 (1027)	fL (cd/ cm ²)	3

Notes:

- 1. The listed parameters and data are for application purposes only.
- 2. Continuous operation, at rated operating conditions. End of life is defined as 50% of minimum luminance.
- 3. Required parameters for inspections and quality conformance.
- 4. Display will not have segment faults that cause ambiguous 0-9 readings (e.g. Ghosting).
- 5. 26 VAC heater operation will maintain display temperature above 0° C for cold temperature operation.

Environmental Characteristics

Operating Temperature (Heater)	$-40 \text{ to } +70^{\circ} \text{ C (see note 5)}$
Operating Temperature (Display)	$0 \text{ to } +70^{\circ} \text{ C}$
Storage Temperature	-45 to +85° C
Humidity, Operational	10 to 95% non-condensing
Humidity, Storage	2 to 98% non-condensing

Pin Connection Table

Pin	Segment	Pin	Segment	
Number		Number		
1	Anode # 1	10	All Commas	
2	Heater Cond.	11	Segment D	
3	Segment F	12	Segment B	
4	Anode # 2	13	Anode # 4	
5	Segment G	14	Segment A	
6	Segment C	15	Keep Alive	
7	Segment E	16	Heater Cond.	
8	Anode # 3	17	Anode # 5	
9	All Decimals			

SPECIFICATIONS ARE FOR REFERENCE ONLY

9200-0096 Rev. A

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DISPLAY PRODUCTS DIVISION

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7-SEGMENTED SCREEN IMAGE, PDP

Ratio Table

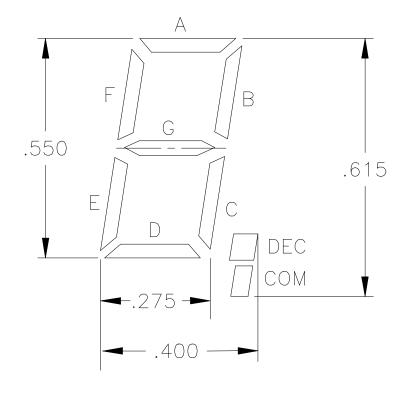
Segment	A	В	C	D	E	F	G	DEC	COM	KA
Ratio	.99	1.0	.98	.99	.99	.98	1.09	.31	.31	.16

Segment Ratios

b" = .00055245

Seg Area
Ratio = -----

Seg b" Area



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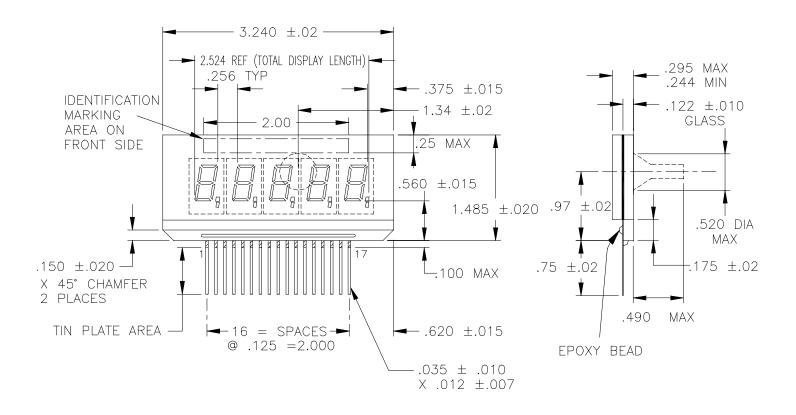
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7-SEGMENTED SCREEN IMAGE, PDP

Outline and Mounting Dimensions:

SP-450-034



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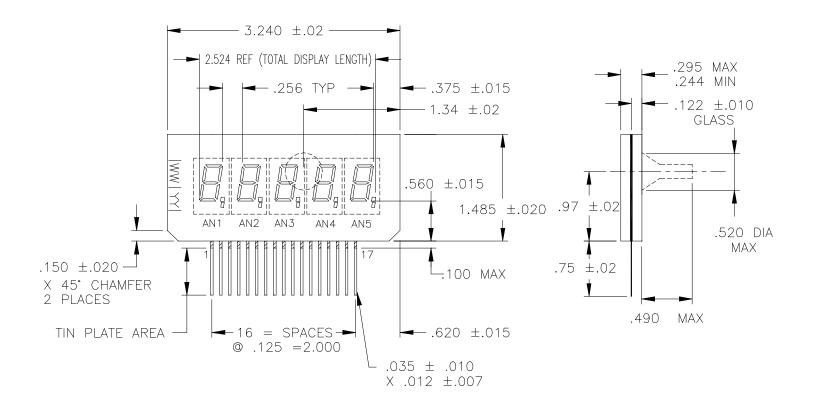
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MODEL: SP-450-034-XX XX denotes dash numbers below 7-SEGMENTED SCREEN IMAGE, PDP

SP-450-034-02



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