

## Plasma Panel Displays

### Dual Linear Bar Graph



PBG-12201    PBG-12203 (1)    PBG-12205    PBG-16101

**Note**

(1) The PBG-12203 is offered on a limited basis. It is not a drop in replacement for a similar bargraph originally designed and manufactured by Burroughs in the 1970's and 1980's. The VISHAY product has tighter recommended operating parameters.

It is up to each customer to determine suitability of the PBG-12203 in their specific application.

**FEATURES**

- Two separate bar graphs, each including reset for 1/2 % or 1 % resolution (see chart)
- At normal viewing distances glow blends into continuous, but precisely controlled bar length
- Unique scanning technique minimizes the number of drivers required
- PBG-12203 bars may be scanned from either direction or both directions simultaneously
- PBG-12203 can display four separate columns of information, providing combined total of information does not exceed 201 clock counts per bar

**ENVIRONMENTAL SPECIFICATIONS**

**Altitude:** 0 ft to 70 000 ft

**Operating Temperature:** 0 °C to + 55 °C

**Storage Temperature:** - 55 °C to + 85 °C

**Relative Humidity (No Condensation):** 85 % maximum

**Vibration:** 0.018" DA, 10 Hz to 50 Hz, 2 G, 50 Hz to 2000 Hz

**Shock:** 50 G, 1/2 sine wave, 11 ms duration

**ELECTRICAL SPECIFICATIONS**

OPERATING PARAMETERS	PBG-12201				PBG-12203				PBG-12205				PBG-12205			
	Min.	Max.	Rec.	Units	Min.	Max.	Rec.	Units	Min.	Max.	Rec.	Units	Min.	Max.	Rec.	Units
Anode Supply Voltage	235	265	250	V	245	265	250	V	235	265	250	V	235	265	250	V
Cathode Off Bias Voltage	68	76	72	V	70	76	72	V	68	76	72	V	68	76	72	V
Anode Off Bias Voltage	80	120	100	V	80	110	100	V	80	120	100	V	80	120	100	V
Anode Sustaining Voltage (Typical)	-	-	150	V	-	-	150	V	-	-	150	V	-	-	150	V
Refresh Rate	-	-	70	Hz	-	-	70	Hz	-	-	70	Hz	-	-	70	Hz
Keep Alive Anode Resistor	-	-	1M	Ω	-	-	1M	Ω	-	-	1M	Ω	-	-	1M	Ω
Keep Alive Cathode Resistor	-	-	1M	Ω	-	-	1M	Ω	-	-	1M	Ω	-	-	1M	Ω
Keep Alive Current (Typical)	-	-	50	μA	-	-	50	μA	-	-	50	μA	-	-	50	μA
Display Anode Resistor	-	-	36k	Ω	-	-	24k	Ω	-	-	24k	Ω	-	-	20k	Ω
Display Peak Anode Current	2.5	3.0	2.8	mA	4.0	4.5	4.2	mA	3.5	5.0	4.0	mA	4.0	6.0	5.0	mA
Scan Time per Cathode	70	90	70	μs	70	80	70	μs	60	90	70	μs	120	180	140	μs
Applied Reset Pulse Width	140	180	140	μs	140	160	140	μs	70	180	140	μs	120	180	140	μs

**OPTICAL SPECIFICATIONS**

	PBG-12201	PBG-12203	PBG-12205	PBG-16101
Elements	201	203	201	101
Resolution	1/2 %	1/2 %	1/2 %	1 %
Segment Length	0.100"	0.150"	0.100"	0.100"
Segment Width	0.011"	0.010"	0.011"	0.020"
Segment Spacing	0.020"	0.020"	0.020"	0.050"
Drivers Required	6	12	8	6
Luminance	35 fl	30 fl	70 fl	60 fl
Viewing Angle	120°	120°	120°	120°
Color	Neon Orange	Neon Orange	Neon Orange	Neon Orange



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