

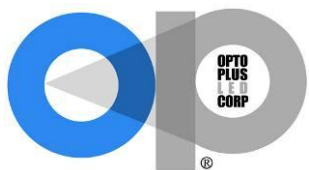
Opto Plus LED Corp.
0.56" SMD Type LED Display
OPS-S5620PG-GW
OPS-S5621PG-GW

● **EDIT HISTORY**

Version A: Mar. 05, 2015

Preliminary spec.

Manufacture	Examination	Approving



Opto Plus LED Corp.
0.56" SMD Type LED Display
OPS-S5620PG-GW
OPS-S5621PG-GW

● **FEATURES**

- 0.56 inch (14.20 mm) Digit Height.
- SMD type.
- Low current operation.
- Gray face, White segment.
- RoHS compliant, Pb Free.

● **DESCRIPTION**

The OPS-S5620PG-GW & OPS-S5621PG-GW are 0.56 inch (14.20 mm) height Single digit 7-segment displays.

This device utilizes Pure Green chip which are made from InGaN on a transparent GaN, substrate.

The display has Gray face, White segment.

● **DEVICE**

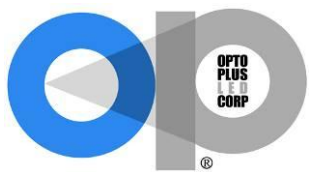
PART NO	DESCRIPTION
OPS-S5620PG-GW	Common Anode
OPS-S5621PG-GW	Common Cathode

RoHS Compliance



Pb free.





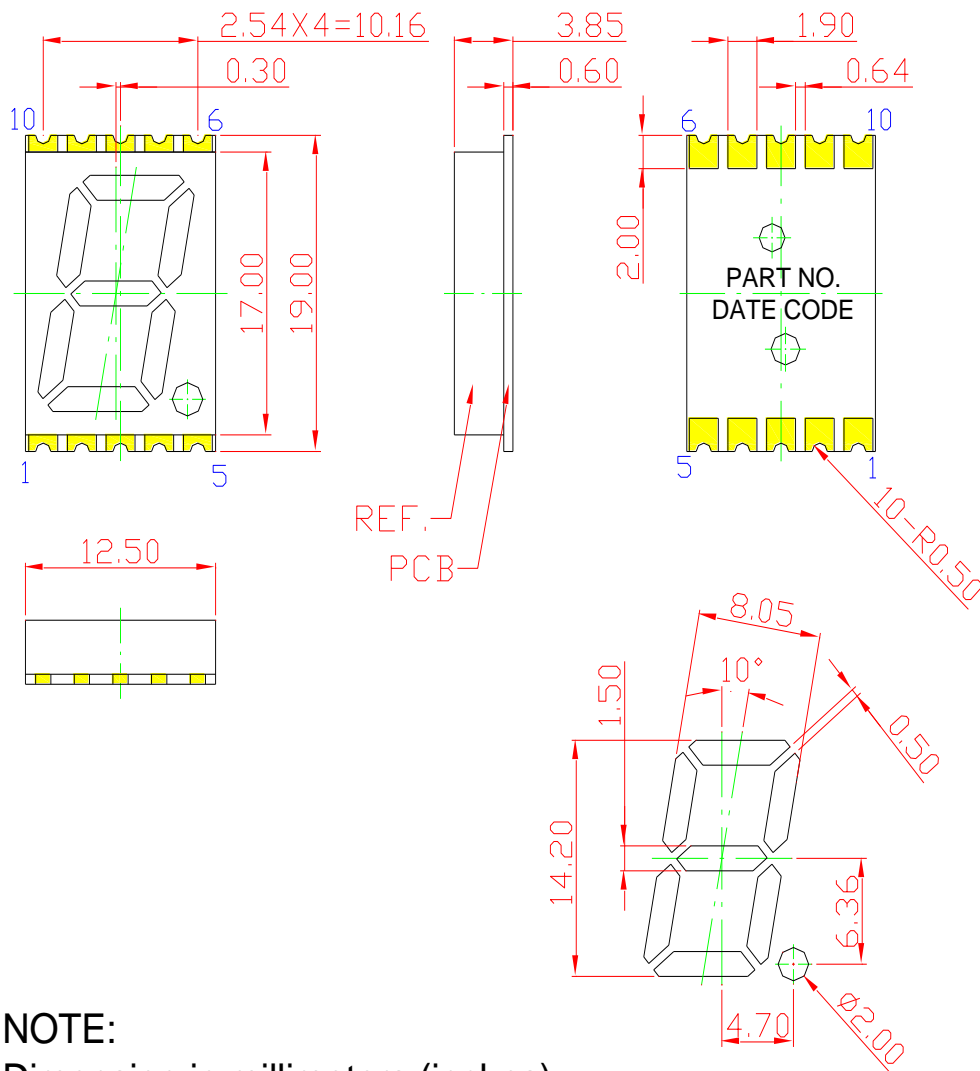
Opto Plus LED Corp.

0.56" SMD Type LED Display

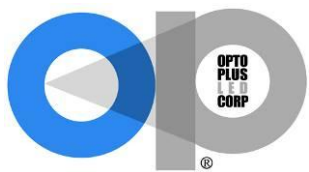
OPS-S5620PG-GW

OPS-S5621PG-GW

● MECHANICAL DIMENSIONS



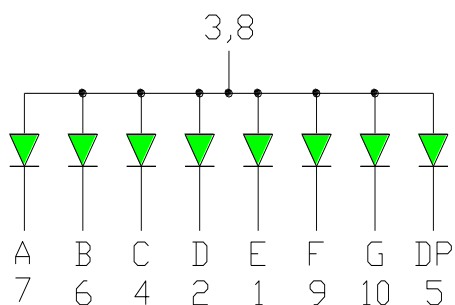
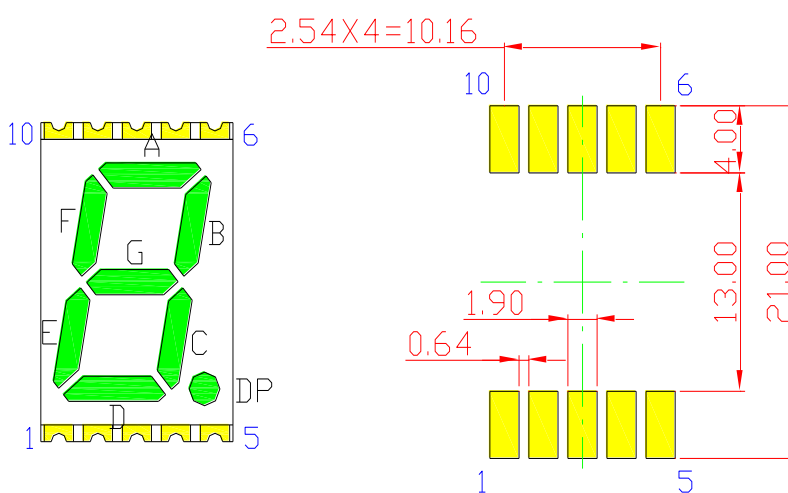
NOTE:
Dimension in millimeters (inches),
and tolerances are ± 0.25 mm (.01") specified.



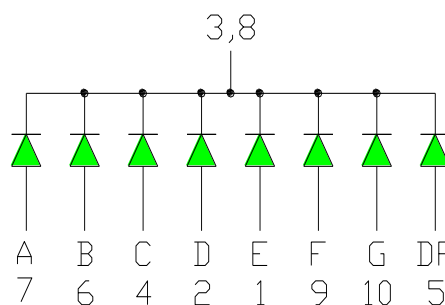
Opto Plus LED Corp.
0.56" SMD Type LED Display
OPS-S5620PG-GW
OPS-S5621PG-GW

● **TYPICAL INTERNAL EQUIVALENT CIRCUIT**

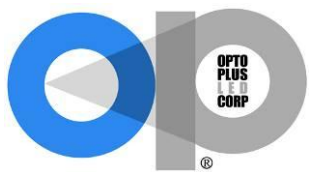
Recommended
Soldering Pattern



OPS-S5620PG-GW
(Common Anode)



OPS-S5621PG-GW
(Common Cathode)



Opto Plus LED Corp.
0.56" SMD Type LED Display
OPS-S5620PG-GW
OPS-S5621PG-GW

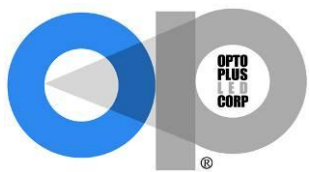
● **PG: PURE GREEN (InGaN/GaN)**

ABSOLUTE MAXIMUM RATING AT Ta=25°C

Parameter	Symbol	Maximum Rating	Unit
Power dissipation	P _{AD}	120	mW
Derating liner from 25°C	-	0.3	mA / °C
Continuous forward current	I _{AF}	30	mA
Peak current (duty cycle 1/10, 1kHz)	I _{PF}	100	mA
Reverse voltage	V _R	5	V
Operating temperature	T _{OPR}	-40 to +105	°C
Storage temperature	T _{STG}	-40 to +105	°C

ELECTRICAL - OPTICAL CHARACTERISTICS AT Ta=25°C

Characteristic	Symbol	Condition	Min.	Type.	Max.	Unit
Forward Voltage, (Per Dice)	V _F	I _F =20mA	-	3.2	4.0	V
Reverse Current, (Per Dice)	I _R	V _R =8V	-	-	10	μA
Dominant Wavelength	λ _D	I _F =20mA	515	-	530	nm
Luminous Intensity	I _v	I _F =20mA	50	90	130	mcd
Spectral radiation bandwidth	Δλ	I _F =20mA	-	30	-	nm



Opto Plus LED Corp.
0.56" SMD Type LED Display
OPS-S5620PG-GW
OPS-S5621PG-GW

● **PG: BIN GRADE (Unit : mcd / I_F =20mA)**

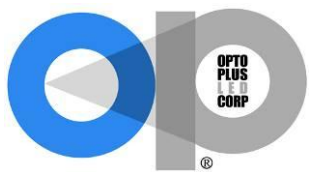
PURE GREEN	O	P	Q
	50.0 – 75.0	75.1 – 100.0	100.1 – 130.0

● **PG: HUE GRADE (λ_D : nm)**

1	2	3
515.0 – 520.0	520.1 – 525.0	525.1 – 530.0

● **AVAILABLE BIN / HUE TABLE**

O1	P1	Q1
O2	P2	Q2
O3	P3	Q3



Opto Plus LED Corp.

0.56" SMD Type LED Display

OPS-S5620PG-GW

OPS-S5621PG-GW

● PG: PURE GREEN (InGaN/GaN) CURVE

Typical Electro-optical Characteristic Curves (25 °C Free Air Temperature Unless Otherwise Specified)

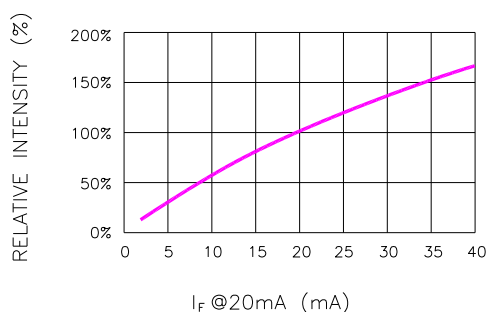


Fig.1 RELATIVE INTENSITY VS. FORWARD CURRENT

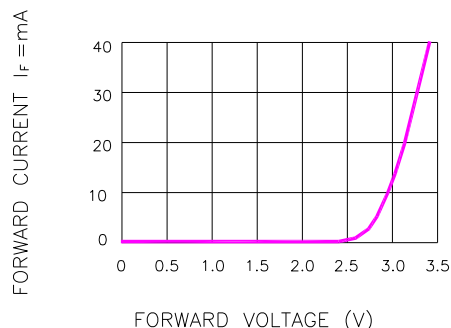


Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

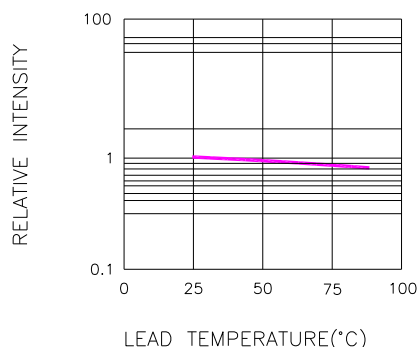


Fig.3 RELATIVE INTENSITY VS. LEAD TEMPERATURE
(PULSED 20 mA; 300us PULSE, 10ms PERIOD)

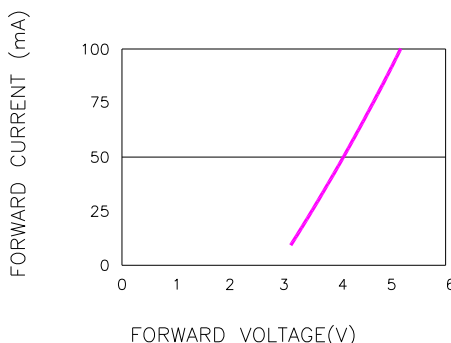


Fig.4 PEAK FORWARD VOLTAGE VS. FORWARD (100us TEST PULSE, 1% DUTY CYCLE)

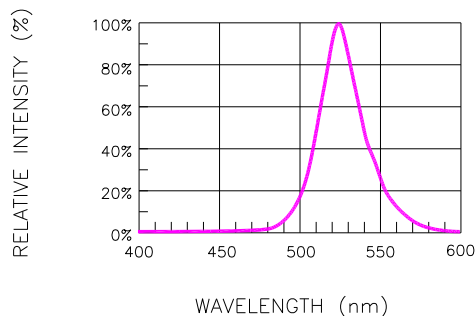


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

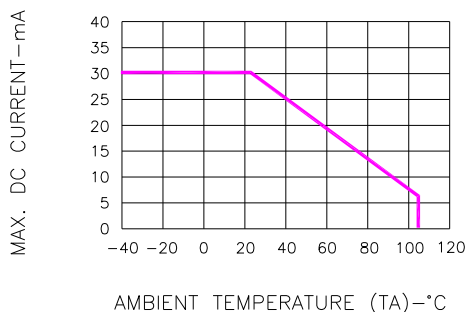
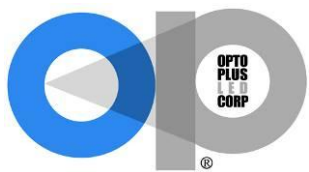


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



Opto Plus LED Corp.

0.56" SMD Type LED Display

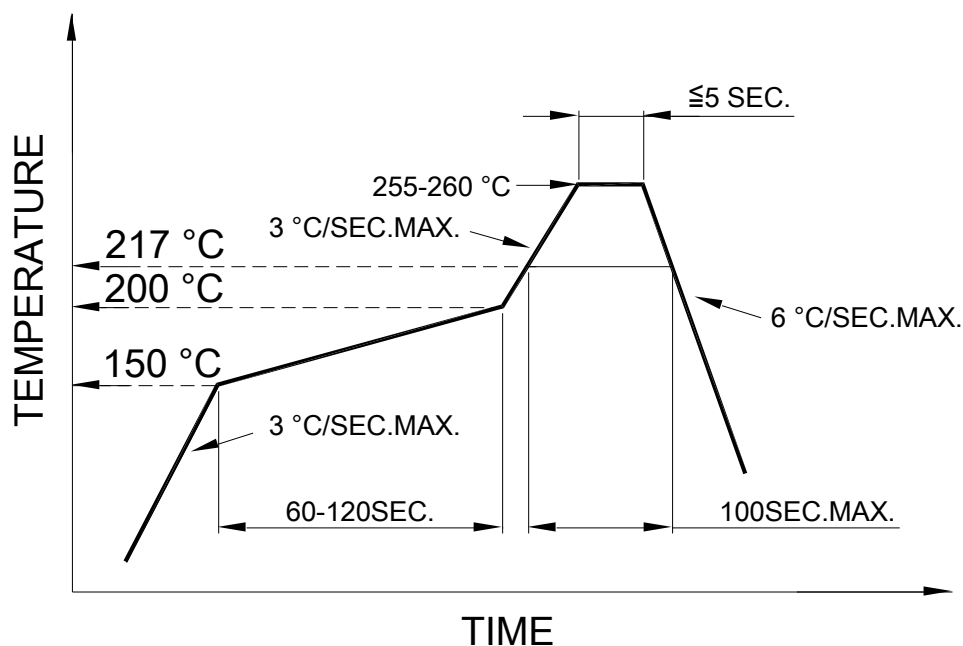
OPS-S5620PG-GW

OPS-S5621PG-GW

● SMT REFLOW SOLDERING INSTRUCTIONS

SMT Soldering Profile

Pb free reflow soldering Profile

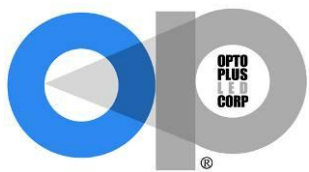


● SOLDERING IRON

Basic spec is ≤ 4 sec when 260°C. If temperature is higher, time should be shorter (+10°C → 1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

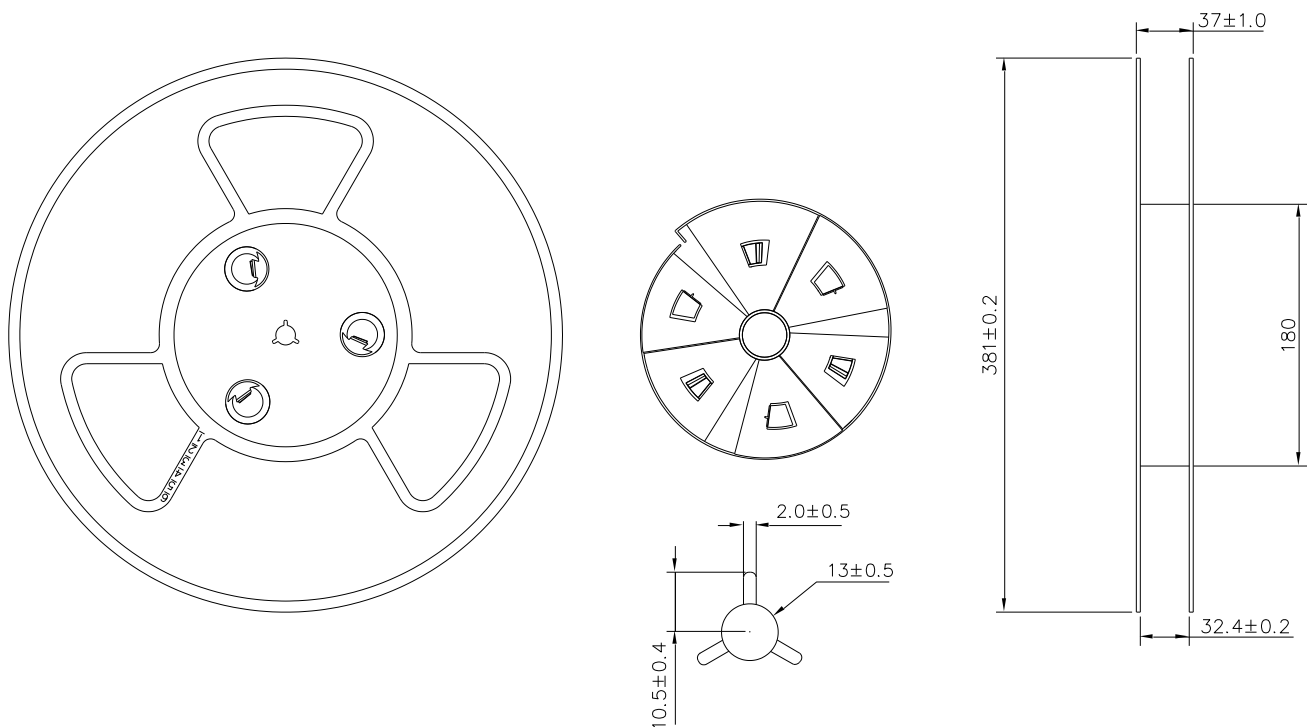
● REWORK

- Customer must finish rework within 3 sec. under 350°C.
- The head of soldering iron cannot touch copper foil.

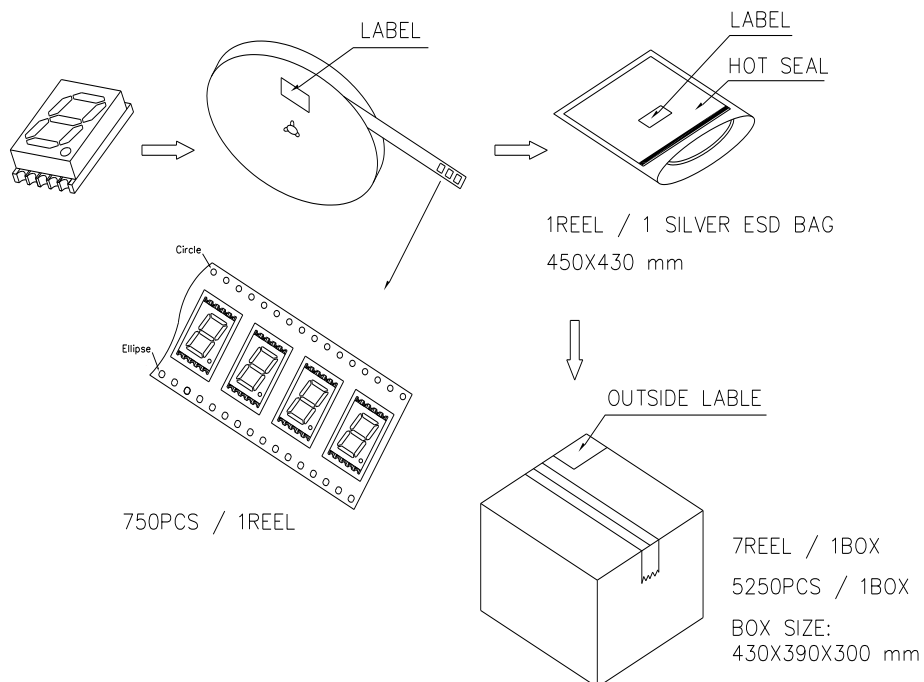


Opto Plus LED Corp.
0.56" SMD Type LED Display
OPS-S5620PG-GW
OPS-S5621PG-GW

● **REEL DIMENSIONS**



● **PACKING & LABEL SPECIFICATIONS**



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LED Displays & Accessories](#) category:

Click to view products by [Opto Plus Led](#) manufacturer:

Other Similar products are found below :

[LTC-2721WC](#) [LTC-4624G](#) [LTC-4624JD](#) [LTC-4627WC](#) [LTC-571P](#) [LTD-5021AWC](#) [LTM-8522G](#) [LTP-4323P](#) [LTP-747G](#) [LTS-3361JG-06](#) [LTS-7673GN](#) [F416SYGWA/S530-E3](#) [HCMS-2819](#) [EADST040RA2](#) [1668](#) [HT-F196NB-5323](#) [IPD2131-27](#) [SA03-12EWA](#) [LDD-E2802RD](#) [LDD-E306MI](#) [LDQ-N514RI](#) [LDS-A3506RD](#) [LDS-A3926RI](#) [LDT-M516RI](#) [SC03-12HDB](#) [SI-B9T151550WW](#) [SI-B9V171550WW](#) [SLC-3PF-WL](#) [1624](#) [LTC-2621JD](#) [LTC-2623WC](#) [LTC-4624P](#) [LTC-4627JD](#) [LTD-2601E](#) [LTD-2601P](#) [LTD-322G](#) [LTD-482PC](#) [LTP-1457AKR](#) [LTP-3784G-01](#) [LTS-313AP](#) [LTS-4812SKR-P](#) [LTS-547AE](#) [LTS-6780P](#) [446010401-3](#) [HV-7W30-6829](#) [CA12240_MINNIE-WWW-MTG-ASSY](#) [DA43-11GWA](#) [LDD-A516RI-17](#) [LDD-E305RI](#) [LDQ-M3604RI](#)