

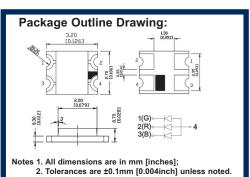
Micro LED® SMD LED "598 SERIES" 1210 PACKAGE

(3.2mm X 2.7mm X 0.7mm) Tri-Color

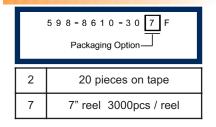
FEATURES / BENEFITS

- ▲ Compatible with automatic placement equipment
- ▲ RoHS compliant
- ▲ Packaged in 8mm tape, 7" reel and 20 per strip
- ▲ Meets EIA-481-1 pkg. std.





ORDERING INFORMATION



PART NUMBERS

Dialight P/N	EMITTED COLOR	MATERIAL	LENS COLOR	LUMINOUS INTENSITY If = 20 ma		DOMINANT WAVELENGTH If = 20 ma		FORWARD VOLTAGE If = 20 ma		GE	VIEWING ANGLE ° DEGREES	PINOUT		
				MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX		
598-8610-307F	RED	AllnGaP	Water Clear	40	60	80	630	635	645	1.9	2	2.2	140	SEE EXAMPLE
	GREEN	InGaN	Water Clear	90	120	220	520	525	530	2.8	3.2	3.5	140	
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	2.8	3.2	3.5	140	
598-8920-307F	RED-ORANGE	AllnGaP	Water Clear	90	120	150	620	625	630	1.9	2	2.2	140	\>_G•1
	GREEN	InGaN	Water Clear	90	150	220	520	525	530	3	3.2	3.5	140	4∘
	BLUE	InGaN	Water Clear	30	60	90	465	470	475	3	3.2	3.5	140	□ }⊸3
	RED-ORANGE	AllnGaP	Diffused	40	60	80	620	625	630	1.8	2.2	2.4	140	>G•1
598-9920-307F	GREEN	InGaN	Diffused	80	100	150	520	525	530	3	3.2	3.5	140	40 RO 2
	BLUE	InGaN	Diffused	30	40	60	465	470	475	3	3.2	3.5	140	<u> </u>
	ORANGE	AllnGaP	Water Clear	70	120	150	600	605	610	1.8	2.2	2.4	140	>G• 1
598-8930-307F	GREEN	InGaN	Water Clear	150	220	300	520	525	530	2.8	3.2	3.5	140	4∘ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	2.8	3.2	3.5	140	<u> </u>
598-8940-307F	YELLOW	AllnGaP	Water Clear	90	110	150	587	590	592	1.8	2.2	2.4	140	D ^G ⊸1
	GREEN	InGaN	Water Clear	150	220	300	520	525	530	2.8	3.2	3.5	140	4 → Y 2
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	2.8	3.2	3.5	140	<u> </u>

ABSOLUTE RATINGS (@ Ta = 25°C)

Dialight P/N	Power Dissipation	Forward Current	Reverse Voltage	Operating Temperature Range	Storage Temperature Range	Peak Pulse Forward Current	Electrostatic Discharge
	(mW)	(mA)	(V)	(°C)	(°C)	(mA)	(HBM)
598-8610-307F	44	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	44	20	5	-40~+100	-40~+100	100	2000
598-8920-307F	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	44	20	5	-40~+100	-40~+100	100	2000
598-9920-307F	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	48	20	5	-40~+100	-40~+100	100	2000
598-8930-307F	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	48	20	5	-40~+100	-40~+100	100	2000
598-8940-307F	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000









1501 Route 34 South • Farmingdale, NJ 07727 USA

Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com

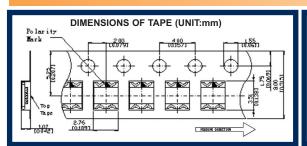


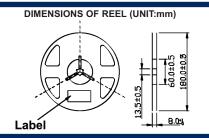


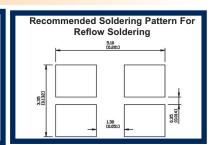
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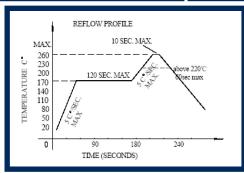
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MECHANICAL DIMENSIONS







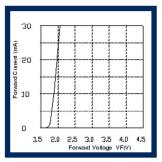


REFLOW	SOLDERING	HAND SOLDERING				
Pre-heat	160~180°C	Temperature	300°C Max.			
Pre-heat time	120 seconds Max.					
Peak temperature	260 ^o C Max.	Soldering time	3 second Max (one time only)			
Soldering time	10 seconds Max.					
Condition	Refer to temperature -profile					

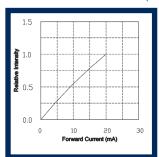
OPTICAL AND ELECTRICAL CHARACTERISTICS CURVES

RED 630-642NM, RED-ORANGE 620-630NM, ORANGE 600-610NM, YELLOW 590-595NM, YELLOW 583-590NM, YELLOW GREEN 570-575NM, GREEN 562-570NM

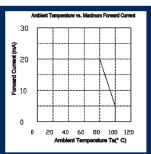
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



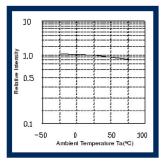




DERATING

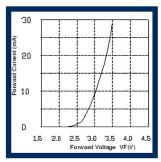


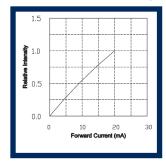
RELATIVE INTENSITY VS AMBIENT TEMPERATURE



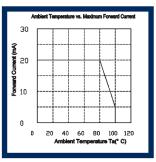
GREEN 520-525NM, BLUE 470-475NM

FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C) RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)

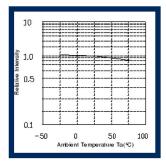




DERATING



RELATIVE INTENSITY VS AMBIENT TEMPERATURE



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