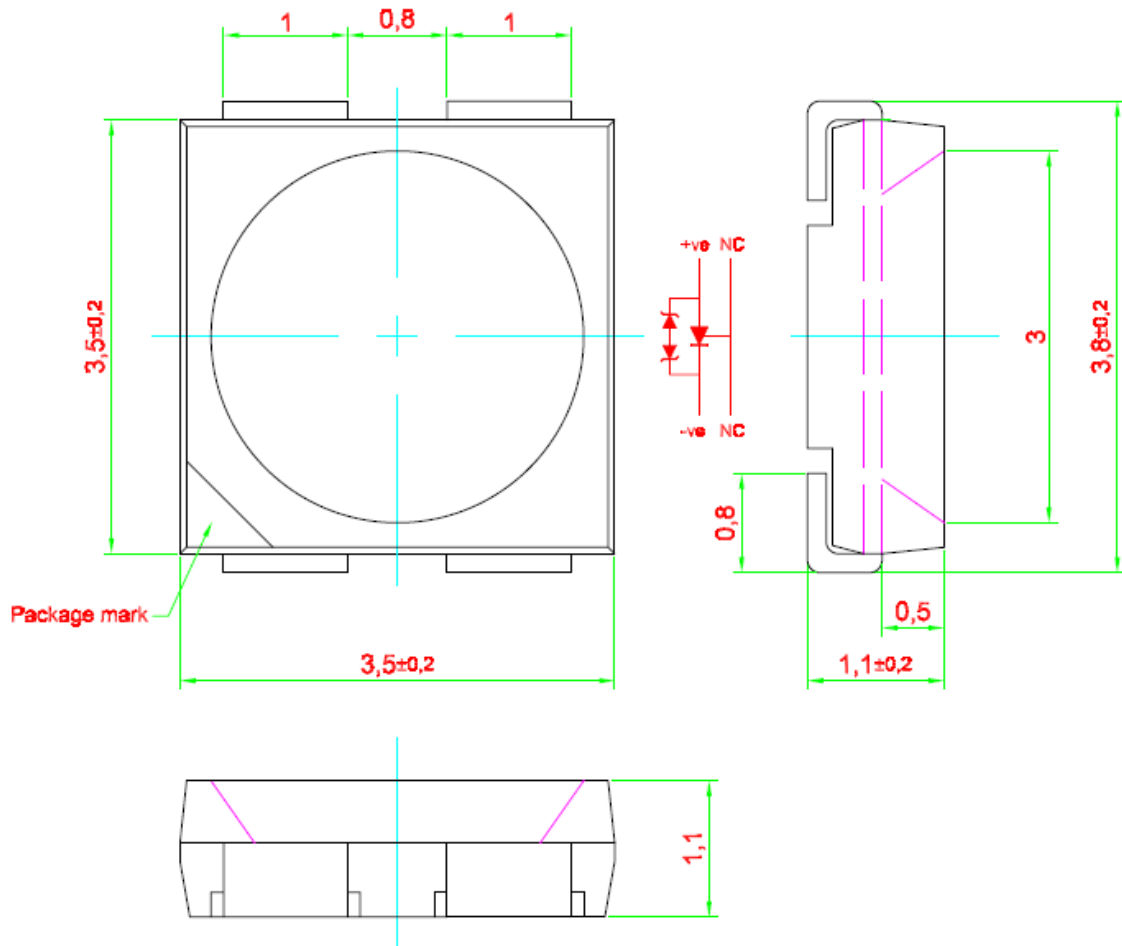


Engineering reference data are not verified. The specifications are subject to change without notice.

DomiPlus InGaN White: DPW-EJG-Z5Z6-1



- Surface mount LED for lighting applications.
- 120° viewing angle.
- Compact package outline (LxW) of 3.5 x 3.5 mm. Ultra low height profile – 1.1 mm.
- Electrically isolated terminals for heat-sinking.
- Compatible to IR reflow soldering.



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Material

	Material
Lead-frame.	Cu Alloy With Ag Plating.
Package.	High Temperature Resistant Plastic, PPA.
Encapsulant	Silicone Resin.
Soldering Leads.	Sn Plating.

Note: This product is Pb free.

Absolute Maximum Ratings

	Maximum Value	Unit
DC forward current.	70	mA
Peak pulse current	100	mA
Reverse voltage.	Not designed for reverse bias	V
LED junction temperature.	125	°C
Operating temperature.	-40 ... +100	°C
Storage temperature.	-40 ... +100	°C
ESD Threshold (HBM)	2000	V

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Optical Characteristics at Tj=25°C.

Part Number	Intensity @ If=60mA (mcd)			Viewing Angle
	Min	Typ.	Max	
DPW-EJG-Z5Z6-1	5200	6000	6600	120
DPW-EJG-Z4Z5-1	4500	5000	5900	120

IV Bin	Intensity @ If = 60mA (mcd)	
	Min	Max
Z4	4500	5200
Z5	5200	5900
Z6	5900	6600

1. Luminous intensity is measured with an accuracy of $\pm 11\%$.
2. Wavelength binning is carried for all units as per the wavelength-binning table. Only one wavelength group is allowed for each reel.
3. DPW-EJG-Z5Z6-1 is only available for CCT binned parts.

Electrical Characteristics at Tj=25°C.

Part Number	Vf @ If = 60mA		
	Min. (V)	Typ. (V)	Max.(V)
DPW-EJG	2.9	3.3	3.6

Forward voltages are tested using a current pulse of 1 ms and has an accuracy of $\pm 0.1V$.

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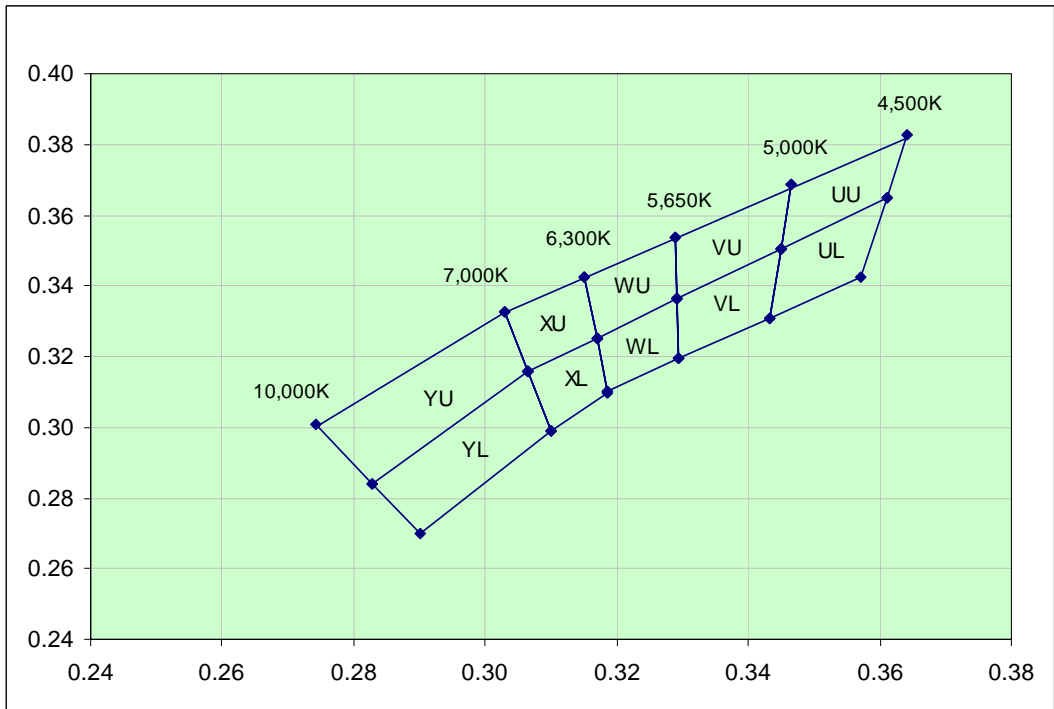
Vf Binning

Vf Bin	Forward voltage (V)
V1	2.90 ... 3.00
V2	3.00 ... 3.10
V3	3.10 ... 3.20
V4	3.20 ... 3.30
V5	3.30 ... 3.40
V6	3.40 ... 3.50
V7	3.50 ... 3.60

Forward voltage, Vf is measured with an accuracy of ± 0.1 V.

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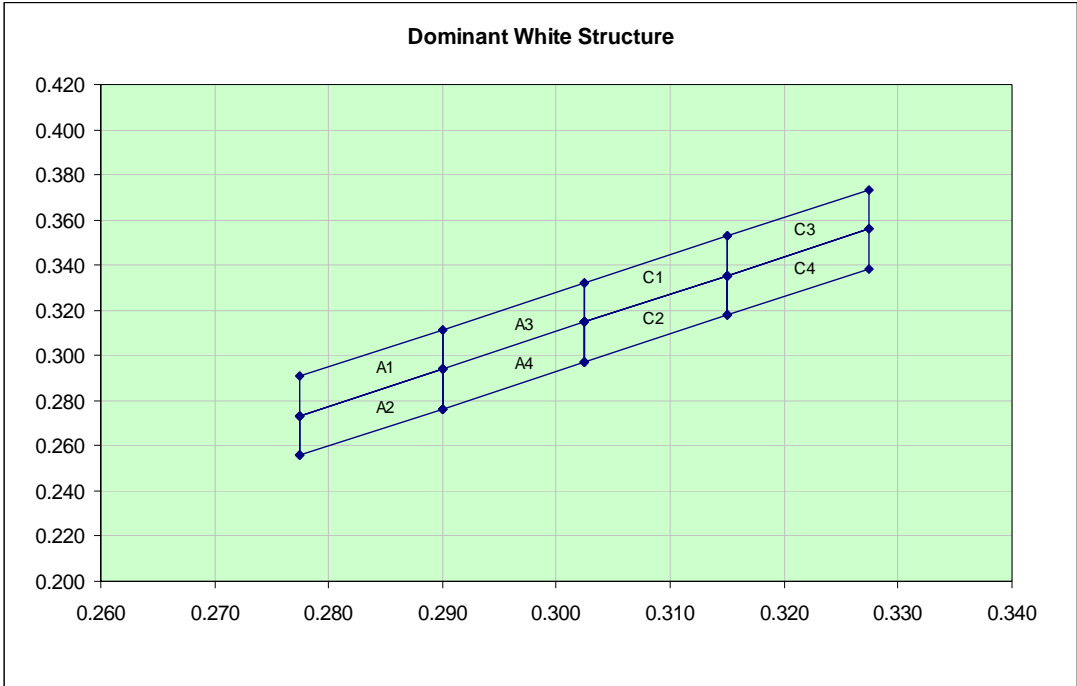
Color Bin



Chromaticity coordinate groups are measured with an accuracy of ± 0.01 .

Bin		1	2	3	4
YU	Cx	0.274	0.283	0.307	0.303
	Cy	0.301	0.284	0.316	0.333
YL	Cx	0.283	0.290	0.310	0.307
	Cy	0.284	0.270	0.299	0.316
XU	Cx	0.303	0.307	0.317	0.315
	Cy	0.333	0.316	0.325	0.343
XL	Cx	0.307	0.310	0.319	0.317
	Cy	0.316	0.299	0.310	0.325
WU	Cx	0.315	0.317	0.329	0.329
	Cy	0.343	0.325	0.336	0.354
WL	Cx	0.317	0.319	0.329	0.329
	Cy	0.325	0.310	0.319	0.336
VU	Cx	0.329	0.329	0.345	0.347
	Cy	0.354	0.336	0.350	0.368
VL	Cx	0.329	0.329	0.343	0.345
	Cy	0.336	0.319	0.331	0.350
UU	Cx	0.347	0.345	0.361	0.364
	Cy	0.368	0.350	0.365	0.383
UL	Cx	0.345	0.343	0.357	0.361
	Cy	0.350	0.331	0.343	0.365

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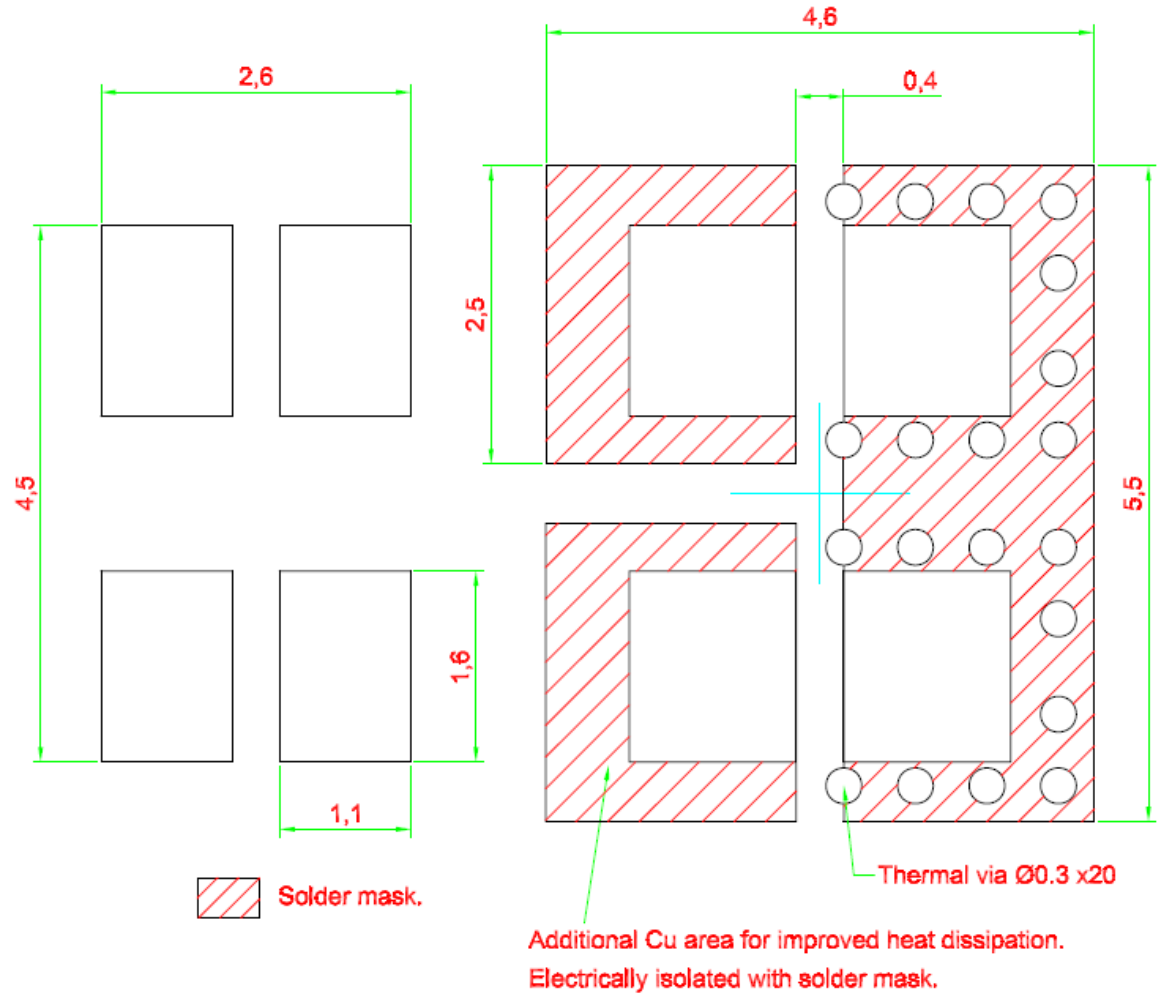


Chromaticity coordinate groups are measured with an accuracy of ± 0.01 .

A1	Cx	0.2775	0.2900	0.2900	0.2775	0.2775
	Cy	0.2732	0.2939	0.3114	0.2907	0.2732
A2	Cx	0.2775	0.2900	0.2900	0.2775	0.2775
	Cy	0.2557	0.2764	0.2939	0.2732	0.2557
A3	Cx	0.2900	0.3025	0.3025	0.2900	0.2900
	Cy	0.2939	0.3146	0.3321	0.3114	0.2939
A4	Cx	0.2900	0.3025	0.3025	0.2900	0.2900
	Cy	0.2764	0.2971	0.3146	0.2939	0.2764
C1	Cx	0.3025	0.3150	0.3150	0.3025	0.3025
	Cy	0.3146	0.3353	0.3529	0.3321	0.3146
C2	Cx	0.3025	0.3150	0.3150	0.3025	0.3025
	Cy	0.2971	0.3179	0.3353	0.3146	0.2971
C3	Cx	0.3150	0.3275	0.3275	0.3150	0.3150
	Cy	0.3353	0.3561	0.3736	0.3529	0.3353
C4	Cx	0.3150	0.3275	0.3275	0.3150	0.3150
	Cy	0.3179	0.3386	0.3561	0.3353	0.3179

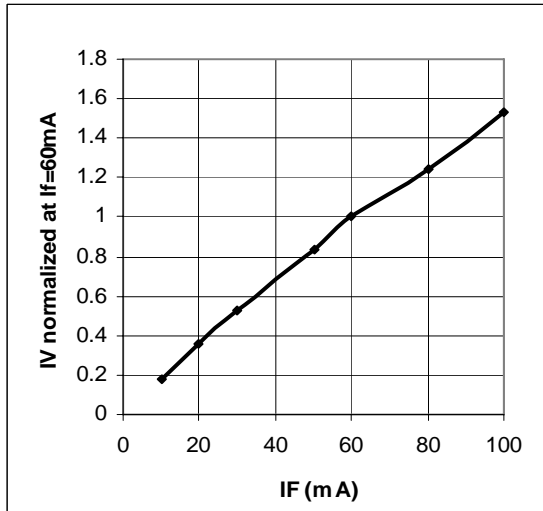
Engineering reference data are not verified. The specifications are subject to change without notice.

Solder Pad Design.

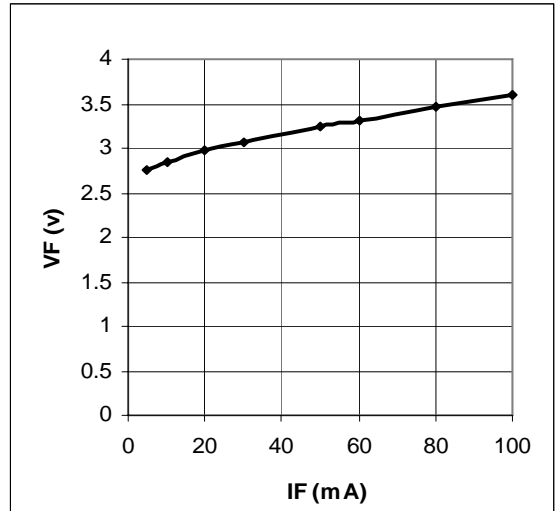


Engineering reference data are not verified. The specifications are subject to change without notice.

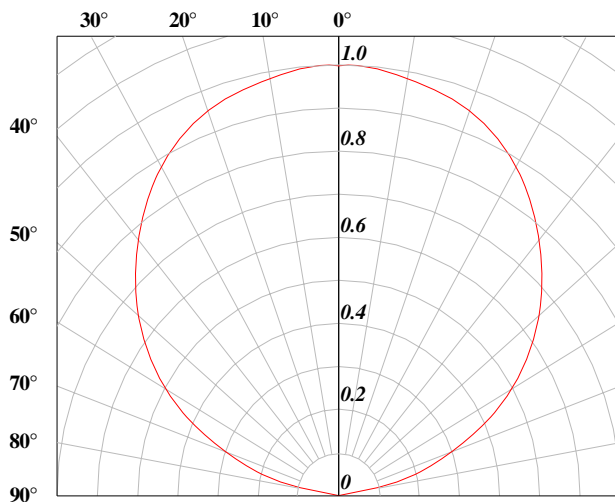
Relative intensity vs. forward current



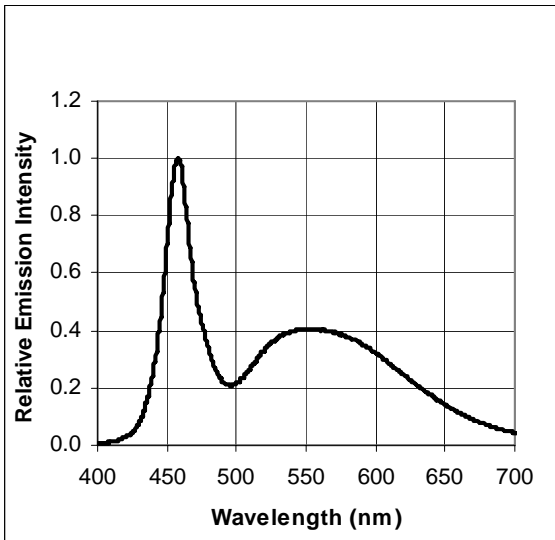
Forward voltage vs. forward current



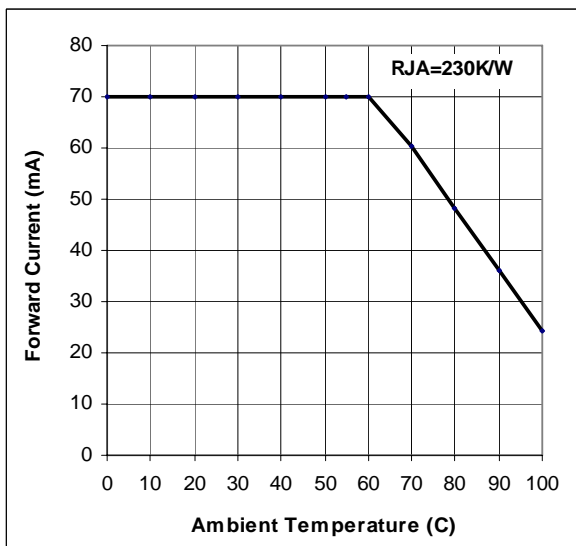
Radiation pattern.



Color Spectrum



Max Current vs. Ambient Temperature

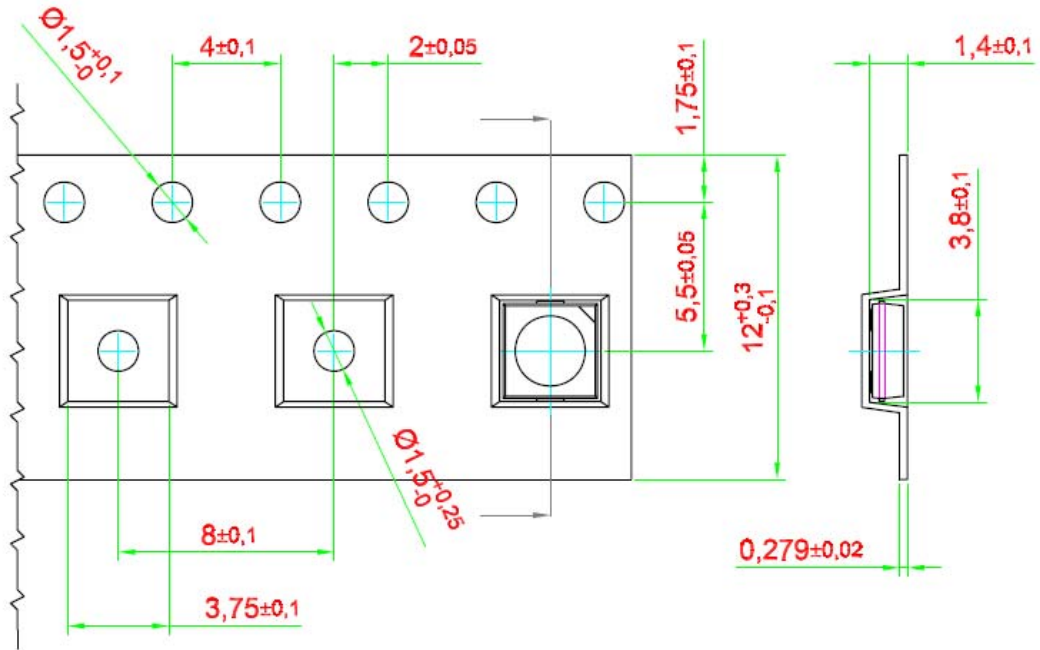


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Taping And Orientation.

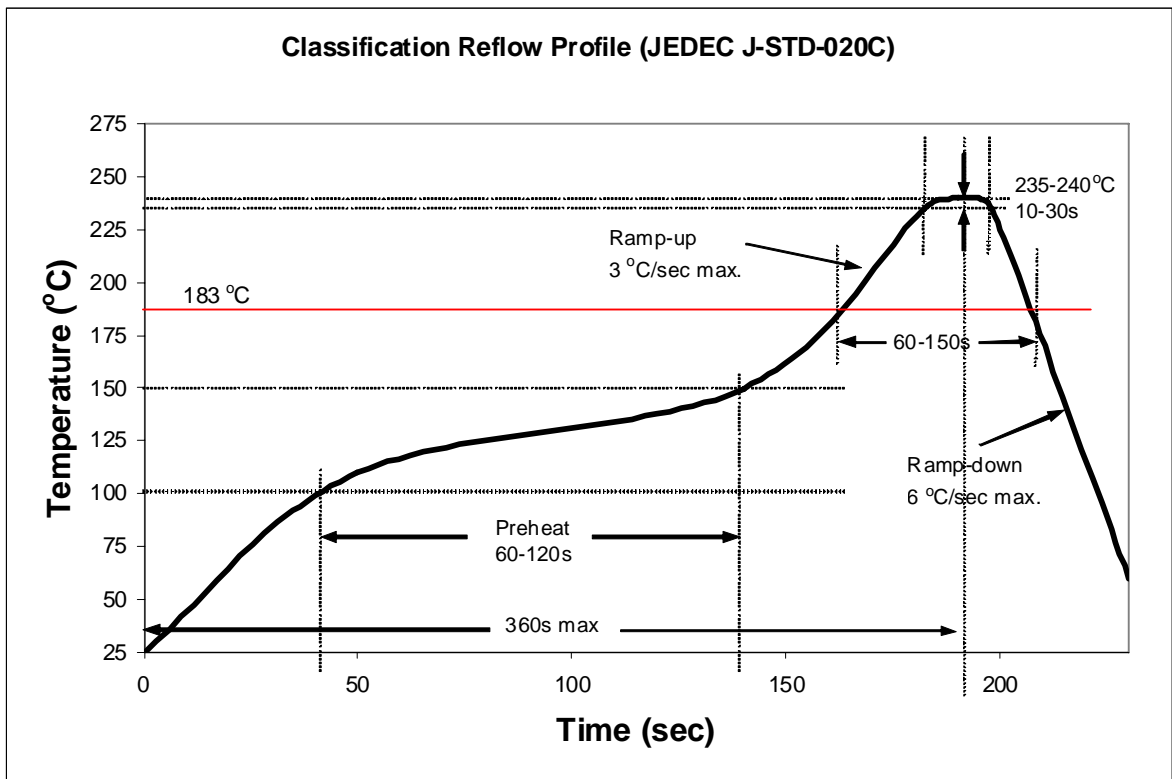
Reels come in quantity of 1000 units.

Reel diameters are 180 mm.

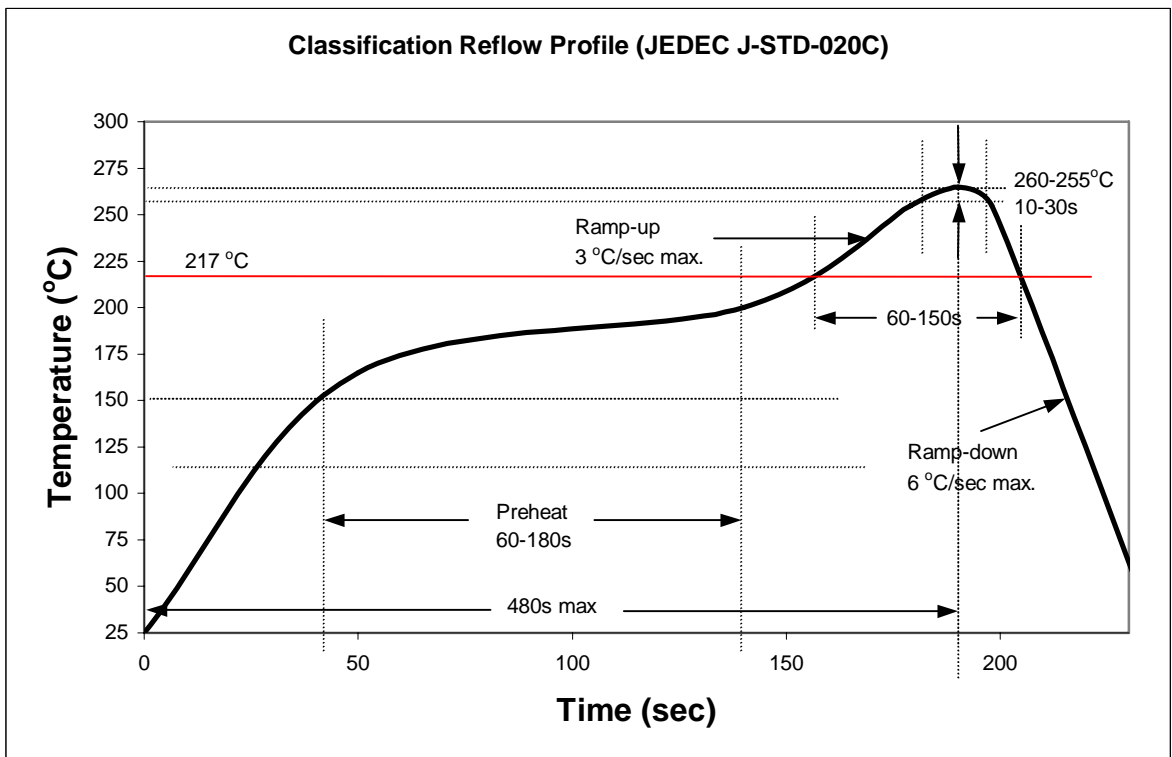


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Recommended Sn-Pb IR-Reflow Soldering Profile.



Recommended Pb Free IR-Reflow Soldering Profile.



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