	Product Series Code:	GSMP	Brand:	GOTREND
	File Version:	V1R0	Editor:	Teddy
	Established Date:	2017.08.03	Description:	SMD Molding Inductor
	Latest Edit Date:	2017.08.03	Pages:	1 / 5

Version Information :

SN	Date	Version Code	Modify Description	Editor
01	2017.08.03	V1R0	Original build	Teddy

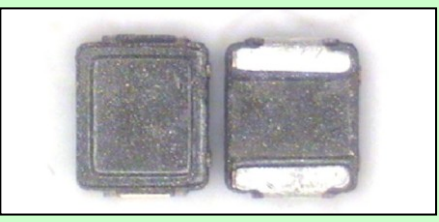
Custom-Made Design Specification :

GOTREND PN	Inductance (uH)	L - Tolerance	DCR (m Ohm) Max. (Typ.)	I _{sat} (A) Max. (Typ.)	I _{rms} (A) Max. (Typ.)	Test Frequency (Hz)

★ Important Declaration 重要聲明:

Human Life Declaration: If any application in/on human life about device like Aircraft / Medical Equipment / Automobile ...etc, the approval must be passed by your unique and detail test or evaluation result. GOTREND Tech. only responsible for our items cost and possible rework charge !
 客戶端生命相關之產品應用,如醫療,航太,車用...等直接人命相關之設備,必須根據客戶特別且仔細之測試驗證,確保研發及量產的產品最終品質,高創科技將僅對不良零件本身之價值及相關直接重工的費用負責 !

謝謝您的採用,任何問題,請發電郵反映,或來電工程部洽詢 !
 Thanks for your patronage,if any question,PLS feel free Email contact or call for service !
<http://www.gotrend.com.tw> E.mail: service@gotrend.com.tw

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Features & Application :

1. Small size High Efficiency
2. For Portable device
3. Smartphone / Tablet PC
4. LTE module / Hard Disk of Ultrabook

Product Identify :

Pin Foot	EMI	Color	Made In
SMD	Shield	Black	China / Taiwan

RoHS Compliance :

Cd :	Max. 0.01wt%
Others :	Max. 0.01wt%

Halogen Free Compliance :

Br :	Max. 900ppm wt
Cl :	Max. 900ppm wt
Br + Cl :	Max. 1500ppm wt

Part No. Example :

PN	:	GSMP	252012	P	-	1R0	M
-----		-----	-----	---		-----	---
ID	:	1	2	3		4	5
1	:	GOTREND Series Code					
2	:	Dimension Code : 252012 = (L) 2.5 x (W) 2.0 x (H) 1.2 mm					
3	:	RoHS Compliance					
4	:	Inductance : 1R0 = 1.0uH					
5	:	Tolerance : M = 20%					

Operating & Storage Condition :

- 1.Storage Condition : -40 ~ +125°C / RH 65 ± 10%
- 2.Storage Life Time : 6 Months @ 20 o C / RH 65% (no seal off)
- 3.Operating Condition : -40 ~ +105°C (Including self-temperature rise)

Attention & Caution:

- * Keep out of splashing water or salt water
- * Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- * Vibrations or shocks which exceed the specified condition
- * Dew condense
- * Please be careful for the stress to this product by board flexure or something after the mounting.

Test Condition :

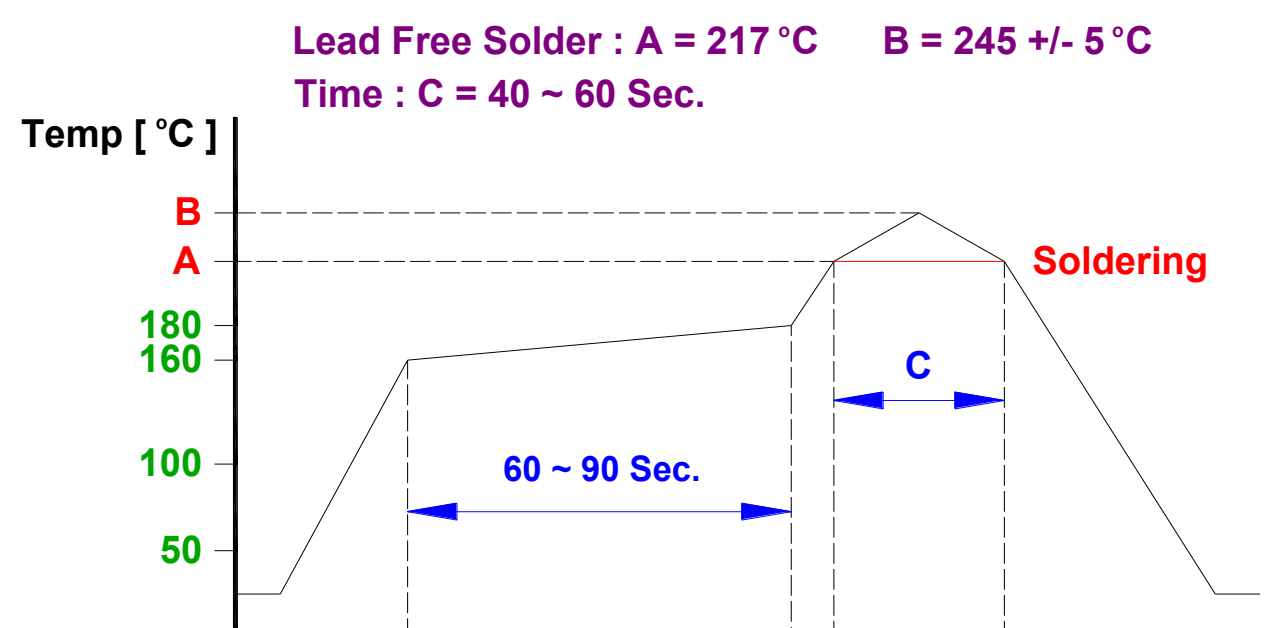
- Equipment :
- 1.L – WK3260 LCR Meter
 - 2.RDC – Twintex TM8089A
 - 3.IDC – WK3260 + 3265B DC-Bias
 - 4.Dimension - Mitutoyo
 - 5.Temperature – TECPEL 305A

Ambient : Temperature 20 ± 5 ° C
Humidity RH 65 ± 20%

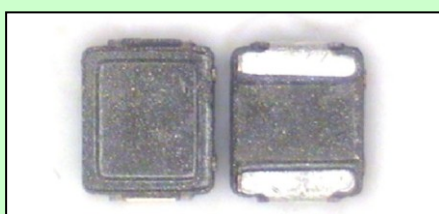
If there may be any doubt on the test result, Measurement shall be made within the following limits:

Ambient : Temperature 25 ± 5 ° C
Humidity RH 75 ± 10%

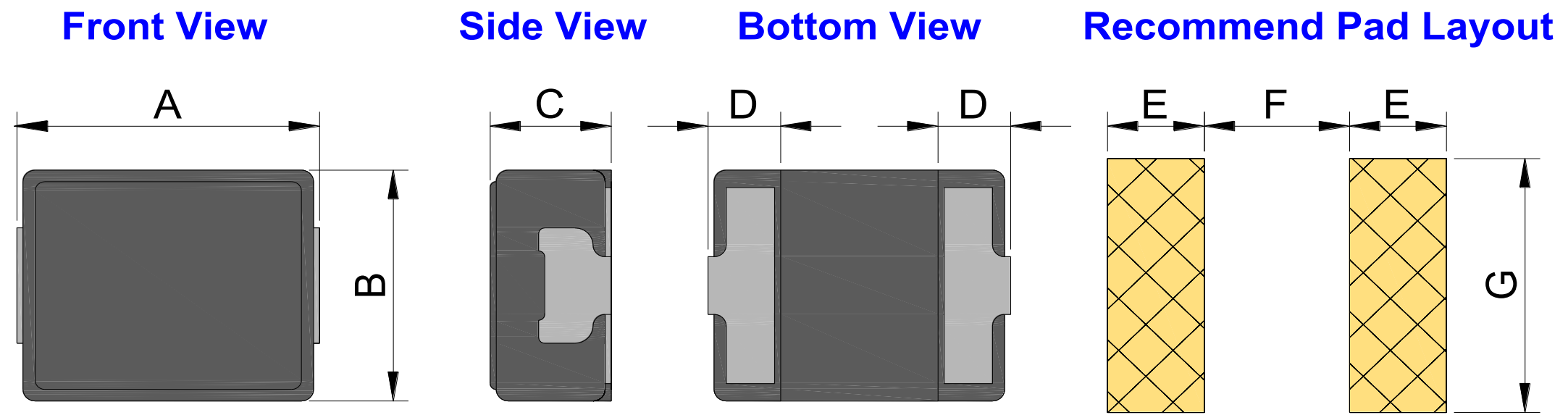
Recommend IR Reflow Curve : GTX-IR-FILE001



Notice : Iron Soldering , Solder < 30 Watt , Direct touch the terminal x 3 Sec. Max. @ 350 ° C

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Dimensions [mm] :

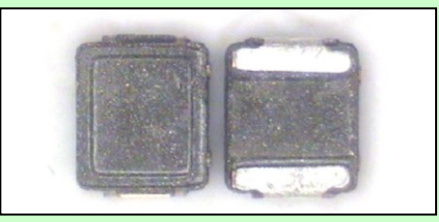


Size Code	A (+/-0.2)	B (+/-0.2)	C (Max.)	D (+/-0.25)	E (Ref.)	F (Ref.)	G (Ref.)
252012	2.50	2.00	1.20	0.55	0.80	1.20	2.00

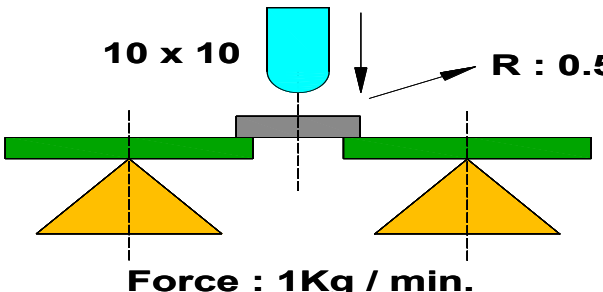
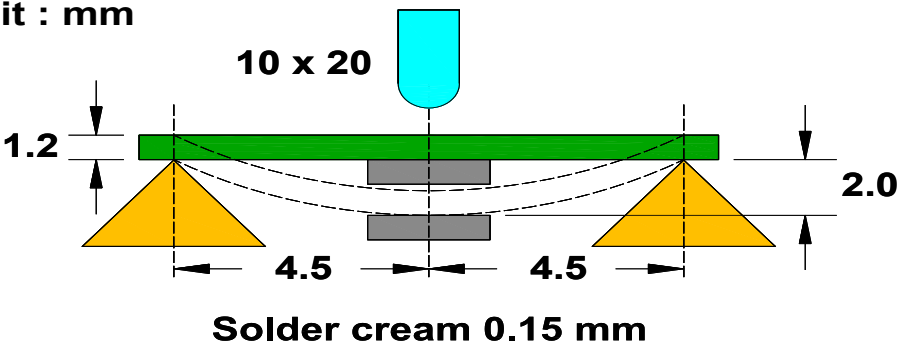
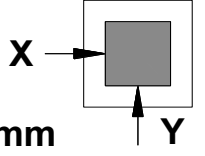
Electrical Characteristics :

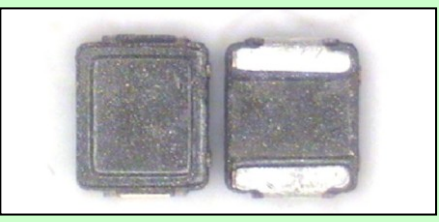
GOTREND PN	Inductance (uH)	L - Tolerance	DCR (m Ohm) Max. (Typ.)	Isat (A) Max. (Typ.)	Irms (A) Max. (Typ.)	Test Frequency (Hz)
GSMP252012P-1R0□	1.00	M	58.0 (45.0)	3.60 (4.10)	3.00 (3.40)	1M
GSMP252012P-1R5□	1.50	M	76.0 (55.0)	2.90 (3.30)	2.50 (2.90)	1M
GSMP252012P-2R2□	2.20	M	100.0 (78.0)	2.20 (2.50)	2.20 (2.50)	1M
GSMP252012P-4R7□	4.70	M	240.0 (188.0)	1.80 (2.00)	1.40 (1.60)	1M
GSMP252012P-6R8□	6.80	M	320.0 (260.0)	1.70 (1.90)	1.30 (1.50)	1M
GSMP252012P-100□	10.00	M	455.0 (325.0)	1.10 (1.30)	1.00 (1.20)	1M

- L-Tolerance : M = 20%
- Isat : For Inductance drop 30% from its value without current.
- Irms : For a 40°C temperature rise from 25°C ambient.

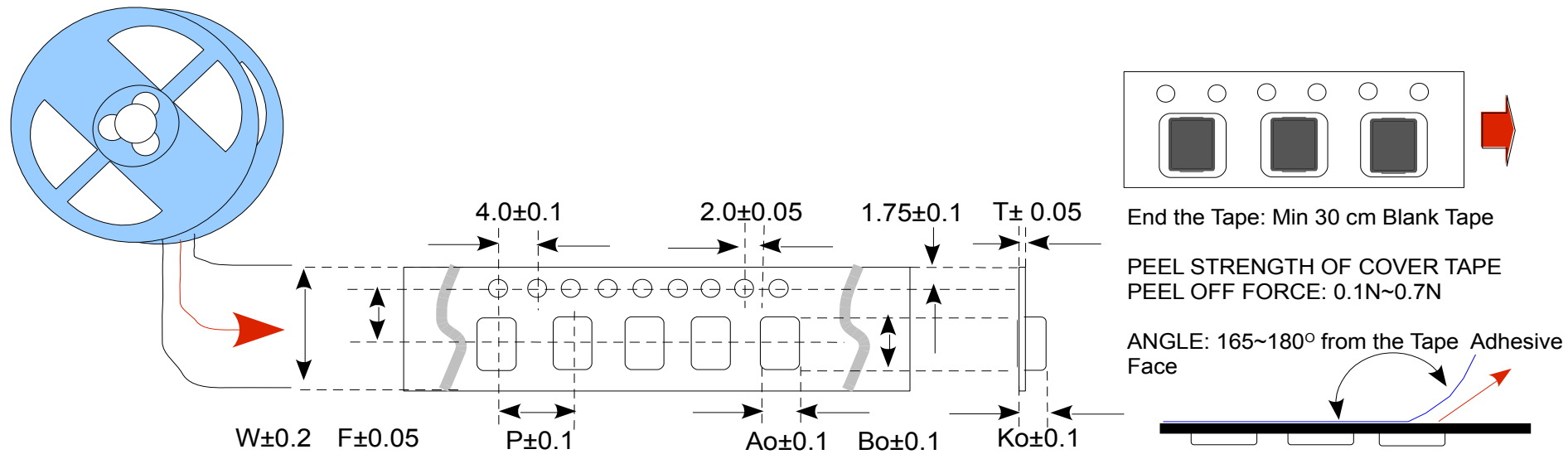
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Reliability :

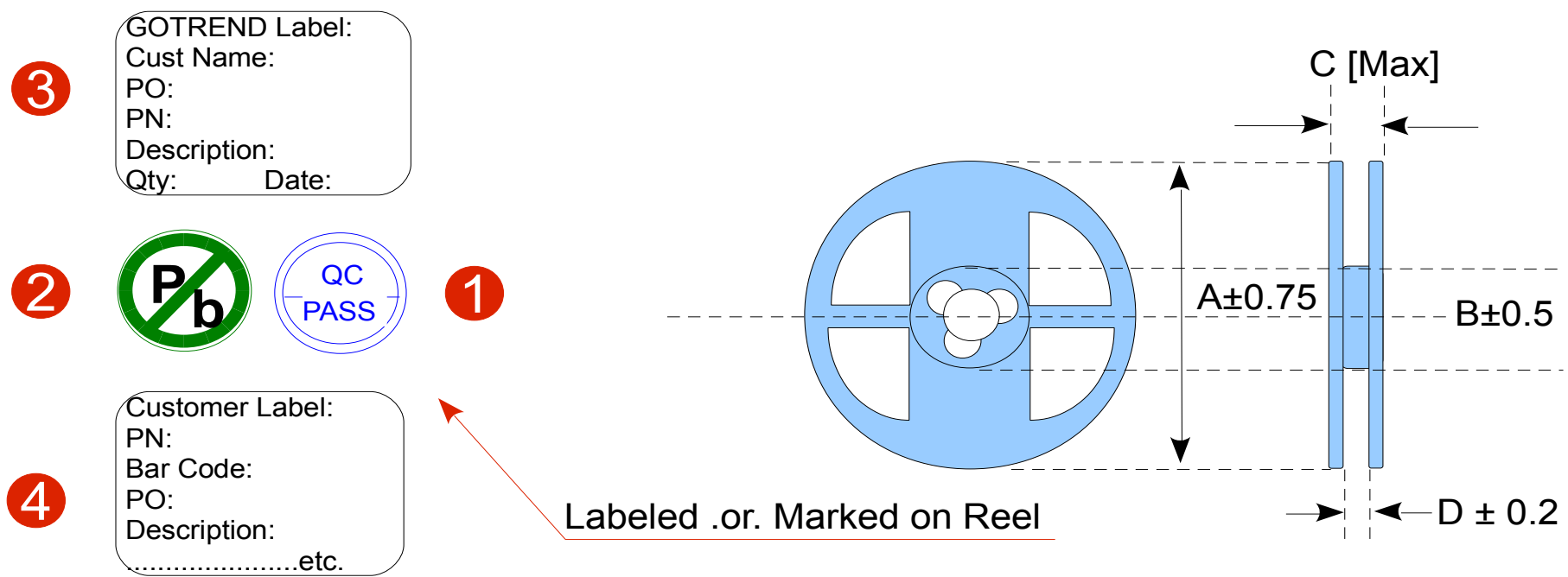
SN	Test Item	Test Condition	Specification		
1	Dimension	Actual Size ...	Meet Spec		
2	Thermal Shock (Temperature Cycle)	Temperature : -40°C/+105°C kept stabilized for 30 min. each Cycle : 100 Cycles (power off)	Elec. no variation Appearance no deformation		
3	Humidity Resistance	Humidity : 90% ~ 95% RH Temperature : 60 ± 2°C , Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
4	High Temperature	Temperature : 105 ± 2°C Testing Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
5	Low Temperature	Temperature : -40 ± 2°C Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
6	Temperature and Humidity Cycle	Temperature	Humidity	Time	Elec. no variation Appearance no deformation
		25°C	90% ~ 95% RH	3.0 Hr	
		55°C	95% ~ 96% RH	5.0 Hr	
		25°C	90% ~ 95% RH	3.0 Hr	
		Cycle : 20 Cycles			
7	Vibration	Frequency : 10Hz ~ 55Hz , Amplitude : 1.5 mm Direction : X , Y , Z , Time : 2 Hours each	Elec. no variation Appearance no deformation		
8	Solderability	Go through real SMT IR-Reflow The profile like our suggest profile. Preheat : 160 ± 10°C (90 sec) Peak : 245 ± 5°C Peak Time : 50 Sec. / up 217°C	Elec. no variation Appearance no deformation		
9	Soldering Heat Resistance	Preheat : 160 ± 10°C (90 sec) Solder : Sn / Ag / Cu (Pb Free) Solder Temp. : 260 ± 5°C , Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation		
10	Iron Solder Heat Resistance	Solder Temp. : 350 ± 5°C Flux : Rosin , Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation		
11	Bending Strength	Unit : mm  Force : 1Kg / min.	Elec. no variation Appearance no deformation		
12	Flexure Strength	Unit : mm  Solder cream 0.15 mm	Elec. no variation Appearance no deformation		
13	Terminal Strength	Mount on PCB Solder Cream 0.15 mm  Push 10N force to X , Y direction	Elec. no variation Appearance no deformation		
14	High-Voltage	100 V DC between core & winding	Elec. no variation Appearance no deformation		
15	Load life	Temperature : 25 ± 3°C Load : Allowed DC Current , Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		

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Package :



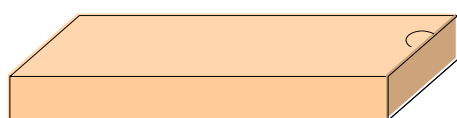
Size	W	P	Ao	Bo	Ko	T	F
252012	8.0	4.0	2.25	2.80	1.35	0.22	3.5



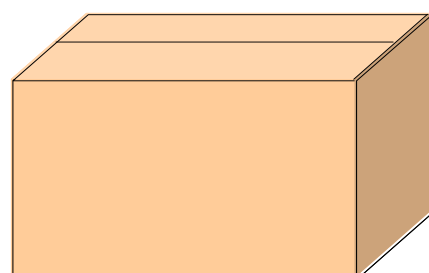
Size	A	B	C	D	Reel Size	Qty / Reel
252012	178	60	12.0	9.0	7"	3000

Unit : [mm]

1 Reel in Pizza Box



4 Pizza Box in Middle Box



2 Middle Box in Large Box



Materials	Reel Size	Pizza Box			Middle Box			Large Box		
		L	W	H	L	W	H	L	W	H
Dimension (mm)	7"	200	200	40	210	210	175	435	225	205