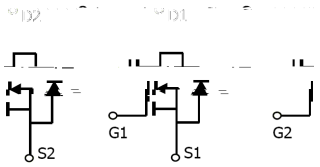
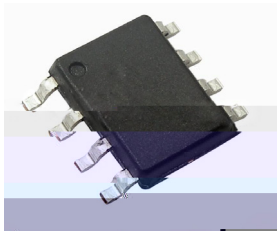
SOP-8 N MOS
N-Channel Enhancement Mode Field Effect Transistor in a SOP-8 Plastic Package.

V_{DS}(V)=30V I_D=6.9A
$R_{DS(ON)}$ <32mΩ(V_{GS}=10V)
$R_{DS(ON)}$ <36mΩ(V_{GS}=4.5V)
$R_{DS(ON)}$ <52mΩ(V_{GS}=2.5V)

Power Management in Notebook computer, Portable Equipment and Battery powered systems and this device is suitable for use as a load switch or in PWM applications.





PIN1 S2 PIN 2 G2 PIN 3 S1 PIN 4 G1
PIN 5 D1 PIN 6 D1 PIN 7 D2 PIN 8 D2

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Gate-Source Voltage	V_{GS}	±12	V
Continuous Drain Current[A]	I_D (T_a=25°C)	6.9	A
	I_D (T_a=70°C)	5.8	A
Pulsed Drain Current[B]	I_{DM}	40	A
Power Dissipation for Single Operation[A]	P_D (T_a=25)	2.0	W
	P_D (T_a=70)	1.44	W
Junction and Storage Temperature Range	T_j,T_{stg}	-55 +150	
Thermal Resistance-Junction to Ambient[A]	$R_{\theta JA}$ t 10s	62.5	/W
	$R_{\theta JA}$	110	/W
Maximum Junction-to-Lead[C]	$R_{\theta JL}$	40	/W

Note:

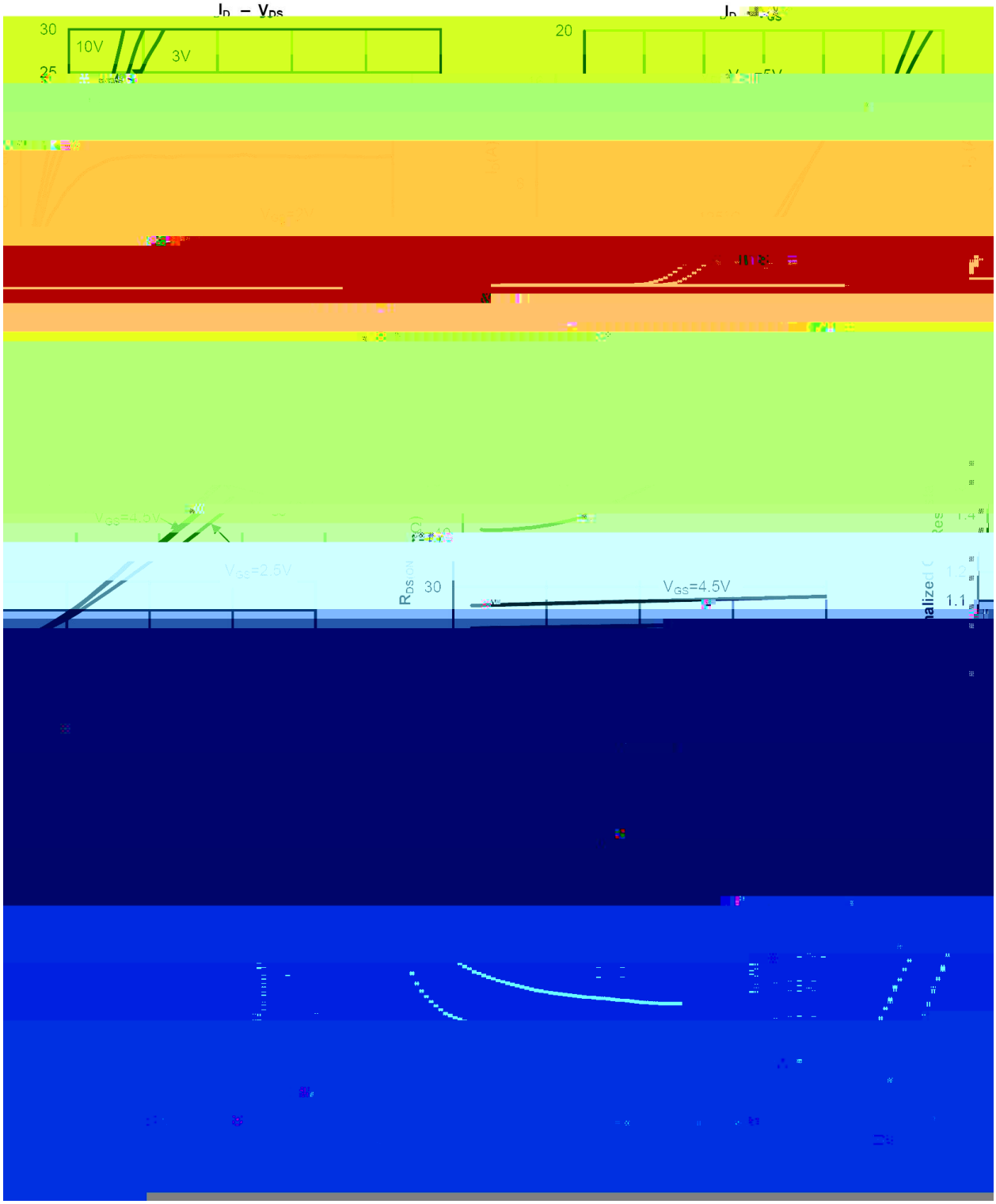
A:The value of $R_{\theta JA}$ is measured with the device mounted on 1in^2 FR-4 board with 2oz. Copper, in a still air environment with T_A=25°C. The value in any a given application depends on the user's specific board design. The current rating is based on the t ≤ 10s thermal resistance rating.

B: Repetitive rating, pulse width limited by junction temperature.

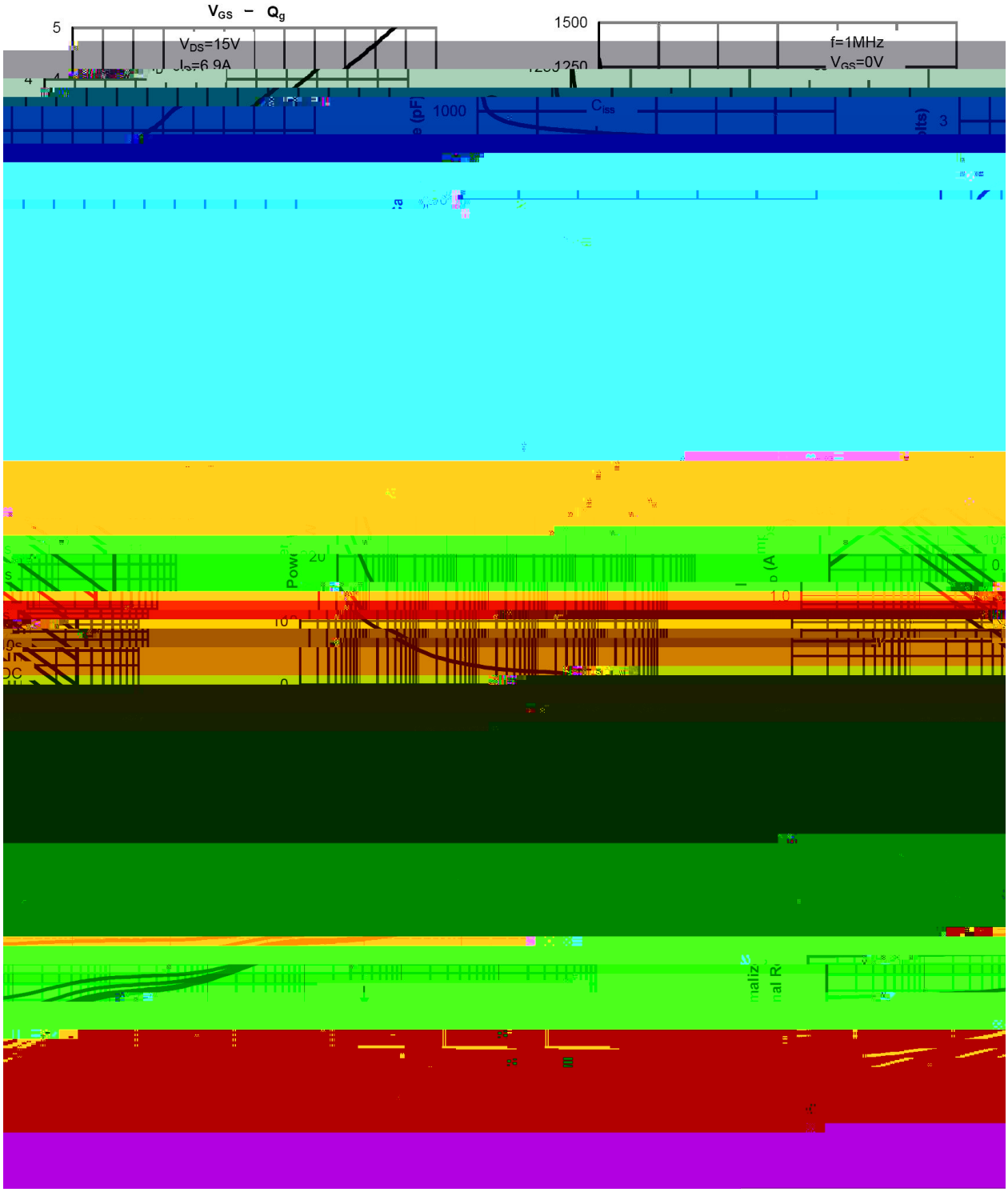
C. The $R_{\theta JA}$ is the sum of the thermal impedance from junction to lead $R_{\theta JL}$ and lead to ambient.

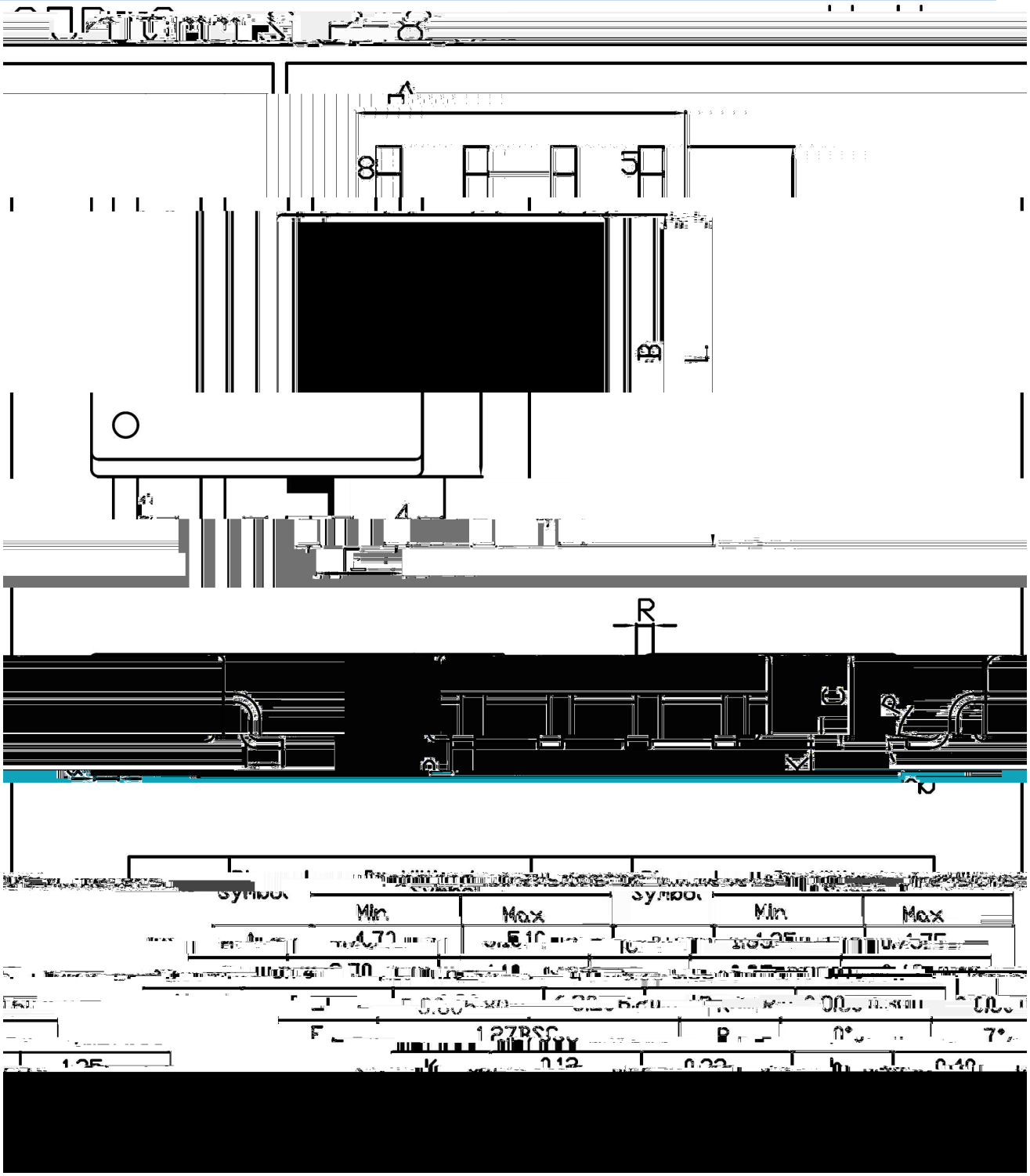
D. The static characteristics in Figures 1 to 6 are obtained using 80 μs pulses, duty cycle 0.5% max.

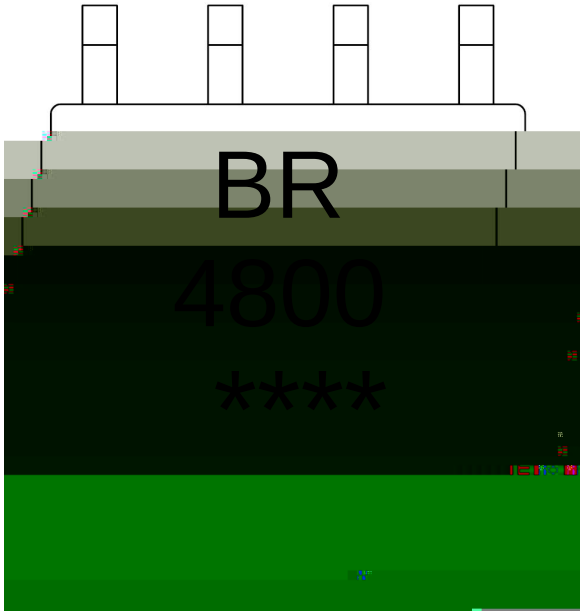
E. These tests are performed with the device mounted on 1 in^2 FR-4 board with 2oz. Copper, in a still air environment with T_A=25°C. The SOA curve provides a single pulse rating.


30
10V
3V
25
20
V_{GS}=4.5V
V_{GS}=2.5V
R_{DS}
30
V_{GS}=4.5V
1.4
1.2
1.1

/


V_{GS} – Q_g
V_{DS}=15V
1500
f=1MHz
V_{GS}=0V
1000
C_{iss}
5
4
3


R
Min.
Max
Min.
Max



BR

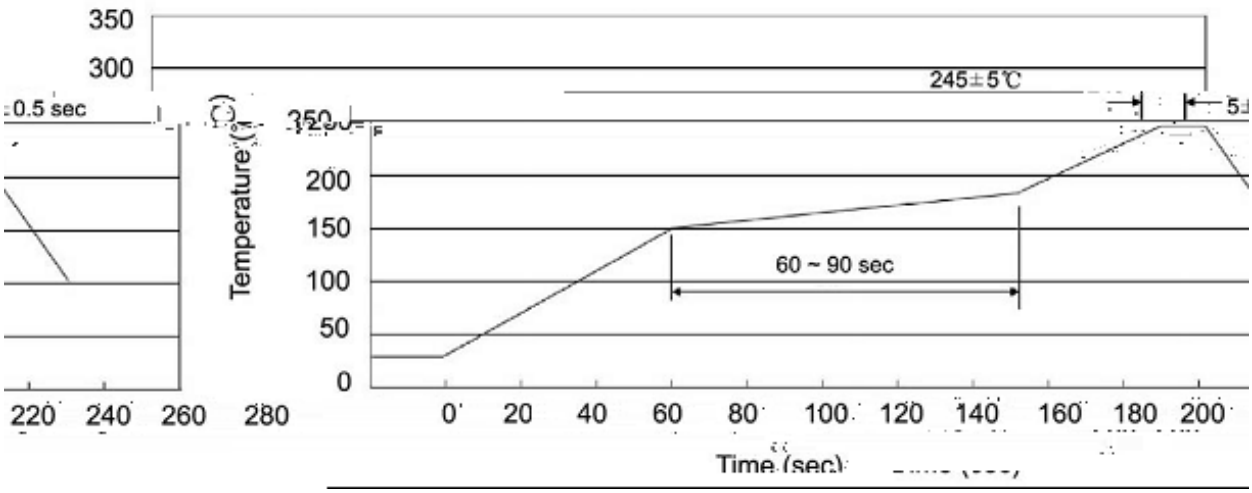
4800

****

Note:

BR:	Company Code.
4800:	Product Type
****:	Lot No. Code, code change with Lot No.

Temperature Profile for IR Reflow Soldering(Pb-Free)



1	150	180		60	90sec;	1.Preheating:150~180 , Time:60~90sec.
2	245±5				5±0.5sec;	2.Peak Temp.:245±5 , Duration:5±0.5sec.
3			2	10	/sec.	3. Cooling Speed: 2~10 /sec.

Note:

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ REEL

Package Type	Units					Dimension		(unit mm^3)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOP/ESOP-8	4,000	2	8,000	6	48,000	13 ×12	360×360×50	380×335×366