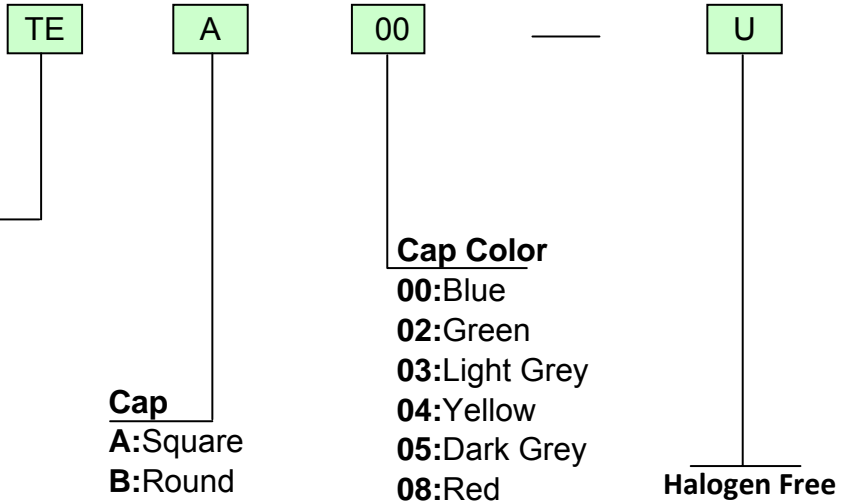


MODEL	SPECIFICATION	SP-01	Page
TE series Tact Switch			Subminiature Tact Switch-RoHS Compliant	1/7

Order Information



Subminiature Tact Switch

- TE0:** Thru-hole
- TES0:** SMD for under Foil
- TESM0:** SMD for with Cap
- TE1:** Thru-hole
- TES1:** SMD for under Foil
- TESM1:** SMD for with Cap
- TE1Y : Right Angle

- Cap**
- A:** Square
 - B:** Round

- Cap Color**
- 00:** Blue
 - 02:** Green
 - 03:** Light Grey
 - 04:** Yellow
 - 05:** Dark Grey
 - 08:** Red

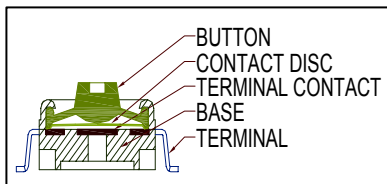
Halogen Free

Specifications

Contact Rating	.....	24VDC,20mA; Min. 0.5W
Contact Resistance	.....	100mΩ
Insulation Resistance	.....	1000mΩ at 100 VDC
Dielectric Strength	.....	250VAC,50Hz for the duration of 1 minute
Operation Temperatur	.....	-25 to+ 85
Mechancial Life	.....	1,000,000 operations
Push Force	.....	4N±1.0N
Travel	.....	0.75±0.25
Mounting	.....	on pc-board
Wave Soldering	.....	270 5 Sec. Max
Reflow Soldering	.....	260 30 Sec. Max
Handing Soldering	.....	350 3 Sec. Max

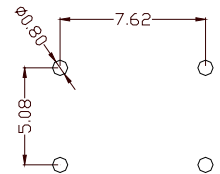
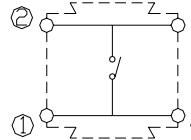
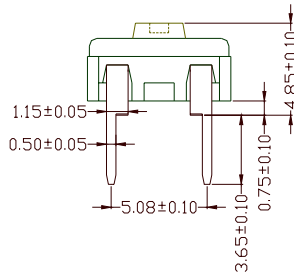
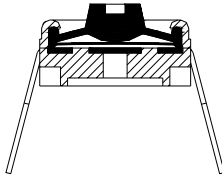
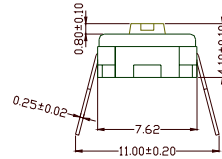
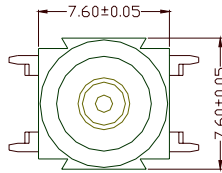
Materials:

Button :	.....	Silicon , IVORY color
Base :TE1/TE1-R	.....	Thermoplastic, meets (UL 94-HB), Blue, washable
TE0	.....	Thermoplastic, meets (UL 94-HB), Red, washable
TES0/TESM0	.....	Thermoplastic, meets (UL 94V-0), White, washable
TES1/TESM1	.....	Thermoplastic, meets (UL 94V-0), Black, washable
Contact Disc :	.....	Stainless steel , Silver Plated over Nickel barrier
Terminal Contact :	.....	Brass, Gold-plated
Terminal :	.....	Brass, Tin-plated
Bracket :	.....	Brass, Tin-plated
Cap :	.....	Thermoplastic, PC UL 94-V2

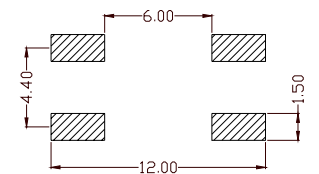
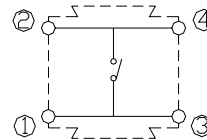
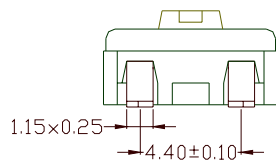
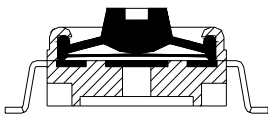
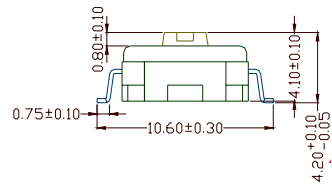
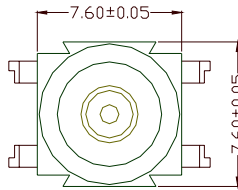


MODEL	SPECIFICATION	SP-02	Page
TE series Tact Switch			2/7

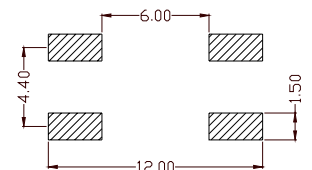
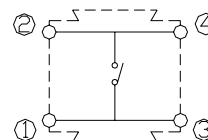
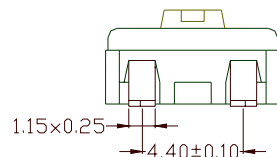
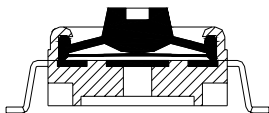
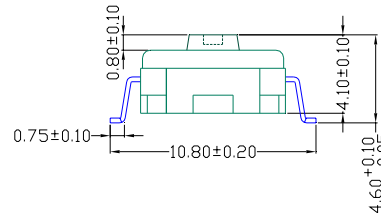
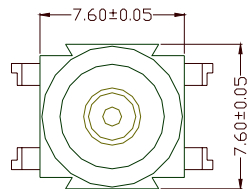
TE1



TES1 (SMD for Under Foil)

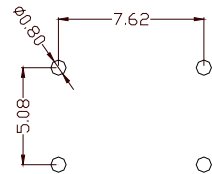
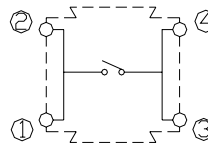
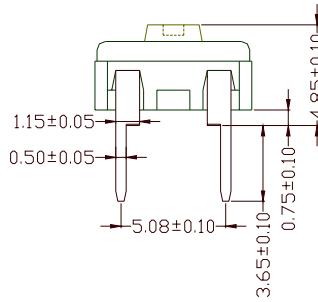
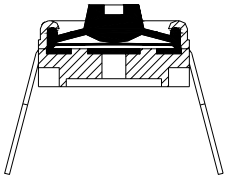
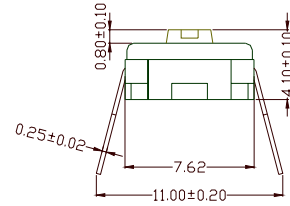
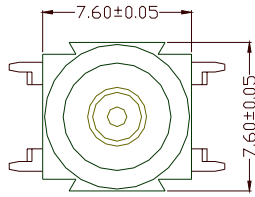


TESM1 (SMD for with Cap)

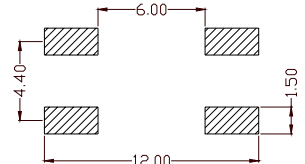
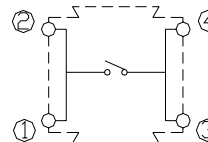
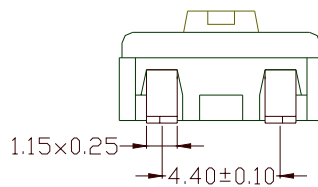
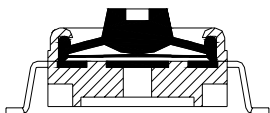
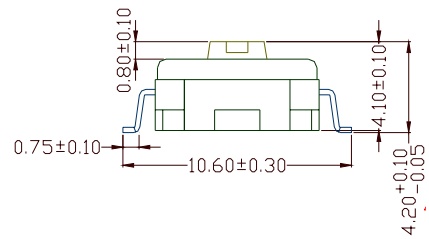
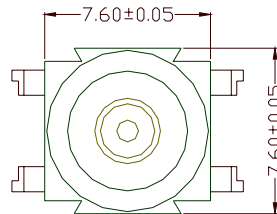
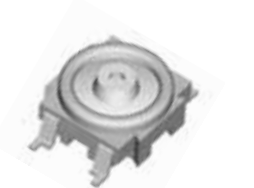


MODEL	SPECIFICATION	SP-03	Page
TE series Tact Switch			3/7

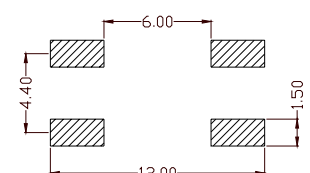
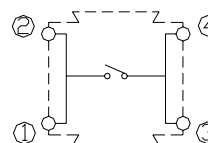
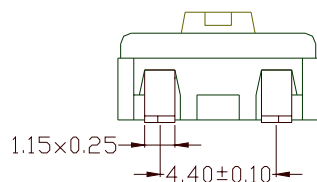
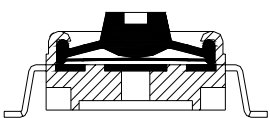
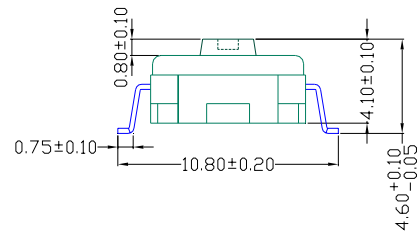
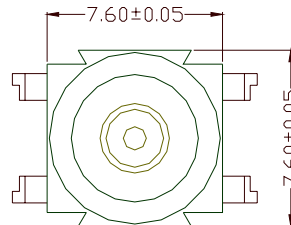
TE0



TES0

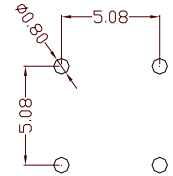
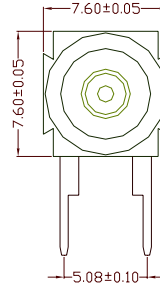
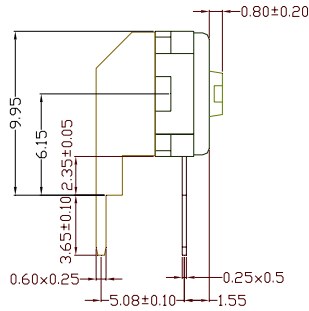
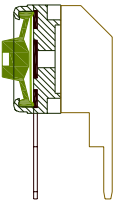
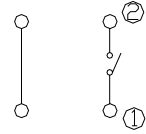
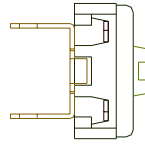


TESM0



MODEL	SPECIFICATION	SP-04	Page
TE series Tact Switch			Subminiature Tact Switch-RoHS Compliant	4/7

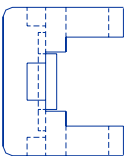
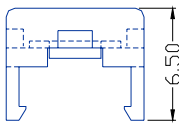
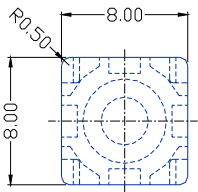
TE1Y



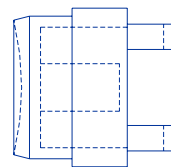
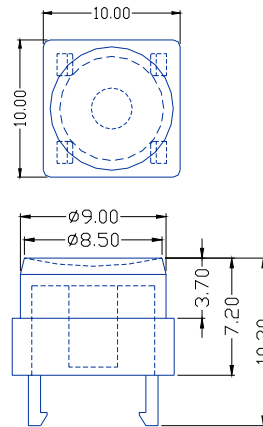
CAP

A: Square

B: Round

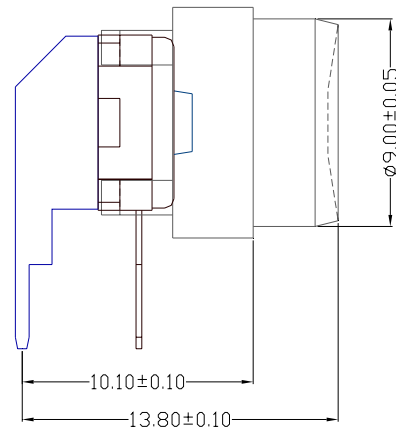
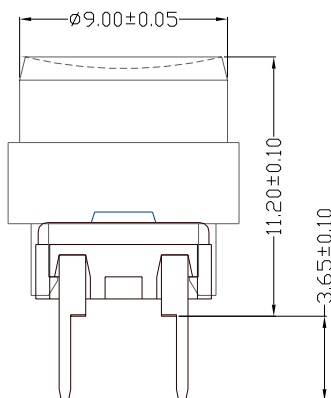


Material:PC	
P/N	Cap Color
A00	Blue
A02	Green
A03	Light Grey
A04	Yellow
A05	Dark Grey
A08	Red



Material:PC	
P/N	Cap Color
B00	Blue
B02	Green
B03	Light Grey
B04	Yellow
B05	Dark Grey
B08	Red

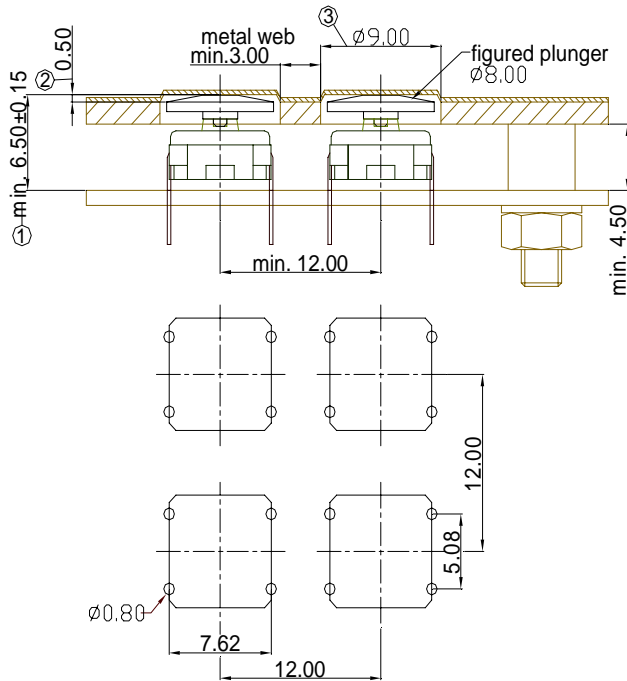
Switch with Cap



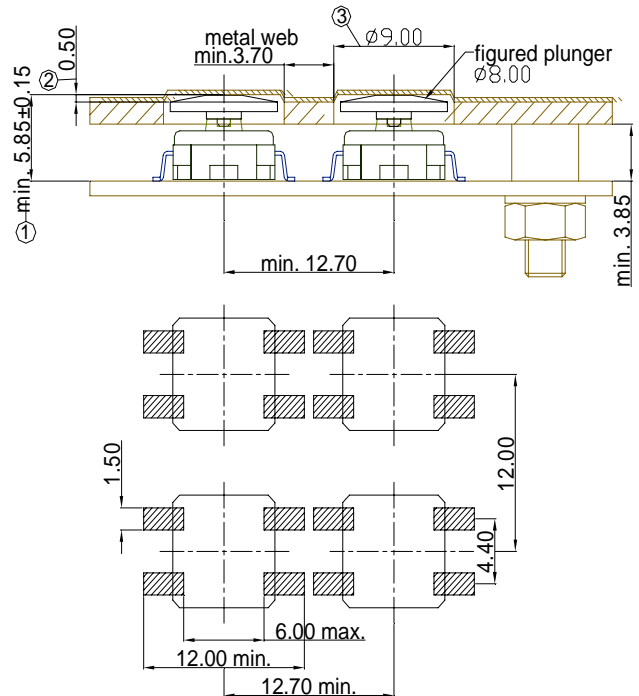
MODEL	SPECIFICATION	SP-05	Page
TE series Tact Switch			5/7
Subminiature Tact Switch-RoHS Compliant			

TE Typical system assembly with Plunger under overlay

Solder terminal for PCB.



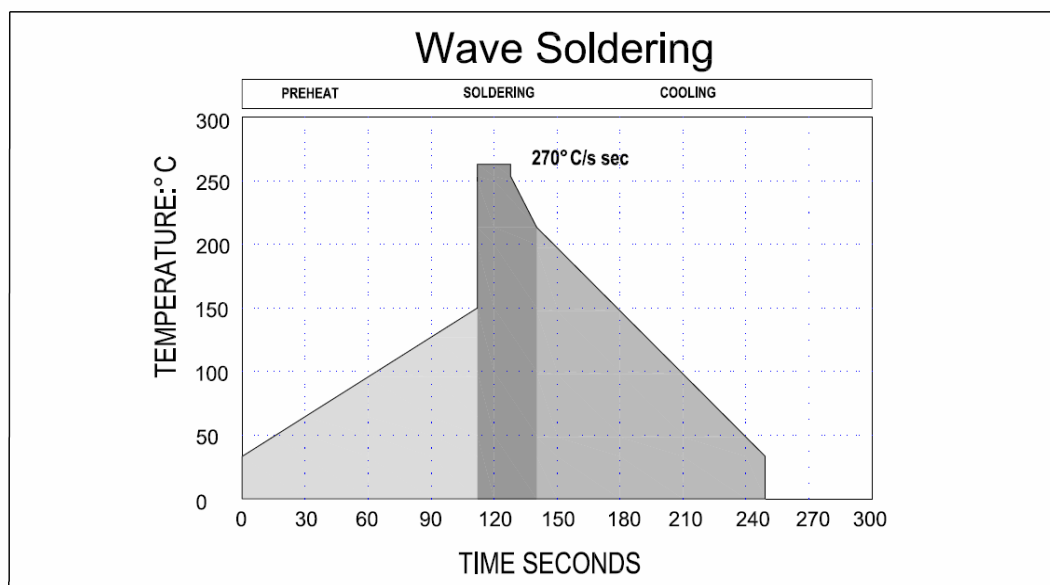
SMD gullwing terminal



Explanation:

- 1 Overall height = TE + plunger
- 2 Recommended area embossing 0.35 mm at glue spacer thickness of 0.15 mm
- 3 Front panel cut out = plunger diameter + 1 mm

Classification Wave Soldering Profiles



Maximum dwell time in the solder wave (270) shall not exceed 5 seconds.

Classification Reflow Profiles

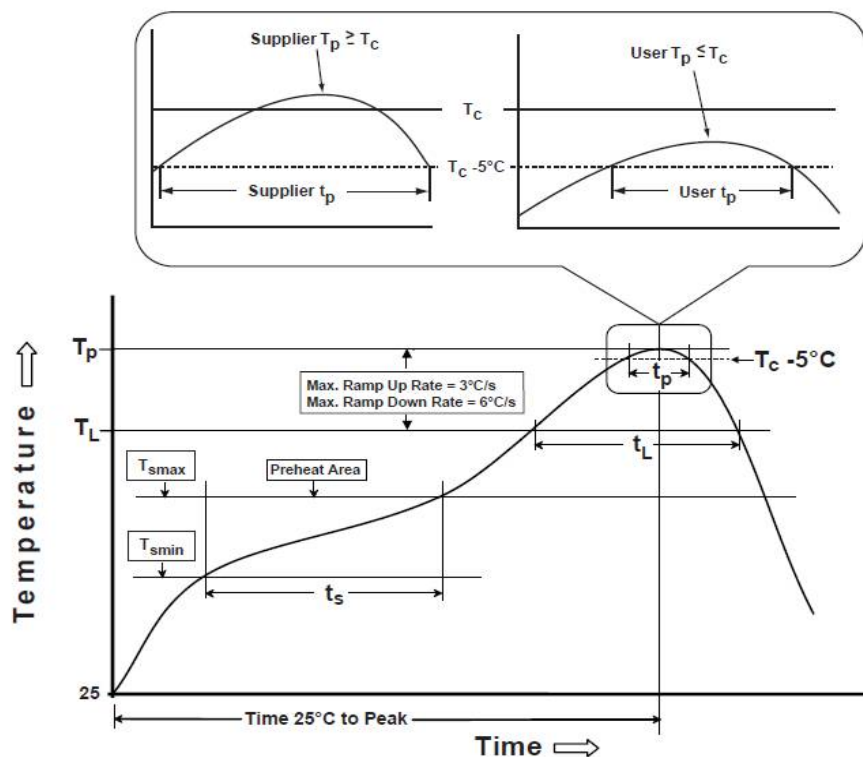
Profile Feature	Pb-Free Assembly
Preheat / Soak	
Temperature Min (T_{smin})	150
Temperature Max (T_{smax})	200
Time(ts) from (T_{smin} to T_{smax})	60 ~120 seconds
Ramp-up Rate (T_L to T_p)	3 /second max
Liquidous temperature (T_L)	217
Time (t_L) maintained above to T_L	60 ~ 150 seconds
Peak package body temperature (T_p)	For users T_p must not exceed the Classification temp:260 (Package Thickness:>2.5mm) For suppliers T_p must equal or exceed the Classification temp:250 (Package Thickness:>2.5mm)
Time (t_p) within 5 of specified classification Temperature (T_c)	30 seconds
Ramp-Down Rate (T_p to T_L)	6 /second max
Time 25 to Peak Temperature	8 minutes max

* Tolerance for peak profile temperature(T_p) is defined as a supplier minimum and a user maximum

Note 1: All temperatures refer to topside of the package, measured on the package body surface.

Note 2: Time within 5 °C of actual peak temperature (t_p) specified for the reflow profiles is a “supplier” minimum and “user” maximum.

The table copy from IPC/JEDEC J-STD-020 D.1 Reflow Soldering Standard Conditions



MODEL	SPECIFICATION	SP-08	Page
TE series Tact Switch			Subminiature Tact Switch-RoHS Compliant	7/7

Tube Package:

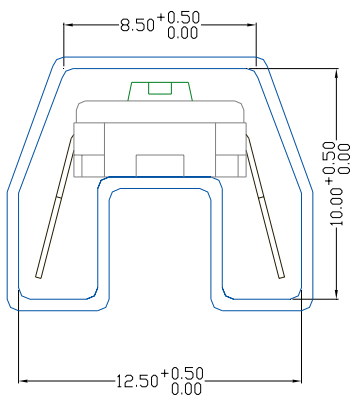
TE0/TE1/TE0/TESM0/TE1/TE0/TE1-R

(Tube = 400mm L)

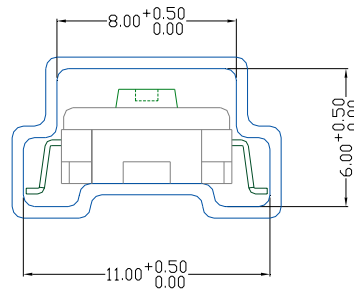
P/N	TE0	TE1	TES0	TES1	TE1-R
TUBE	50	50	50	50	50
BOX	3200	3200	5000	5000	3300
CTN 1	6400	6400	10000	10000	6600
CTN 2	12800	12800	20000	20000	13200

TUBE

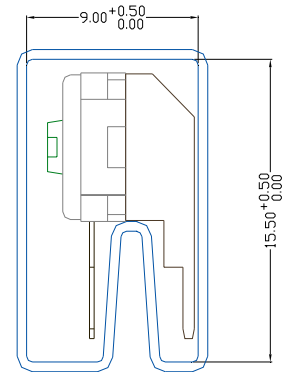
Thru-hole



SMD

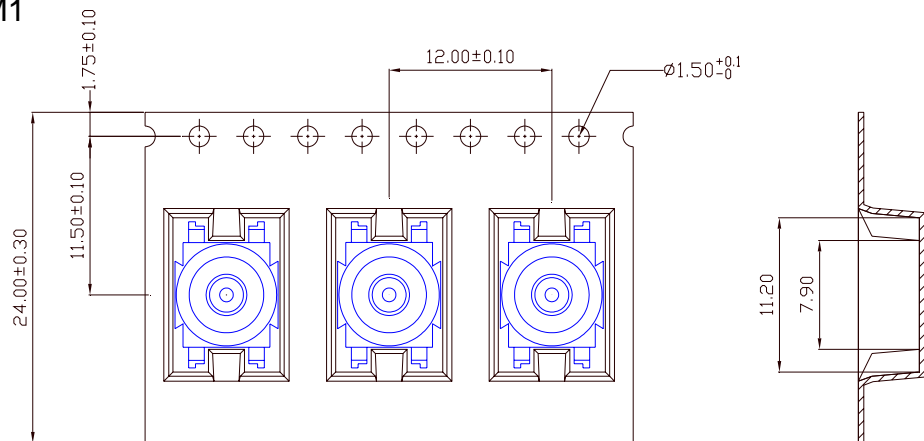


Right Angle



Tapin & Reel Package

TES0/TESM0/TE1/TE0/TE1-R
1200PCS/REEL



Box Dimension:

Tube57.0cm x 13.0cm x 12.5cm
Reel34.0cm x 12.0cm x 33.0cm

Carton Dimension:

Tube
CTN 1: 2 Boxes.....58.5cm x 29.0cm x 15.0cm
CTN 2: 4 Boxes.....58.5cm x 28.0cm x 27.0cm
Reel
2 Boxes34.0cm x 26.0cm x 35.0cm