TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: LTCC Filter 902.5(890 ~ 915) MHz SMD 2.0x1.25 mm (25MHz BW)

TST Part No.: TL0023A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Hongpu Lin Hong Pu Lin

Approved by:_____ Andy Yu Andy Yu

Date:_____ 2018/12/04

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the change

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LTCC Filter 902.5(890~915) MHz SMD 2.0X1.25 mm (25 MHz BW)

MODEL NO.:TL0023A REV.1

A. MAXIMUM RATING:

1. Operating temperature range: -40℃ to +85℃
2. Storage temperature range: -40 ℃ to +85 ℃
3. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

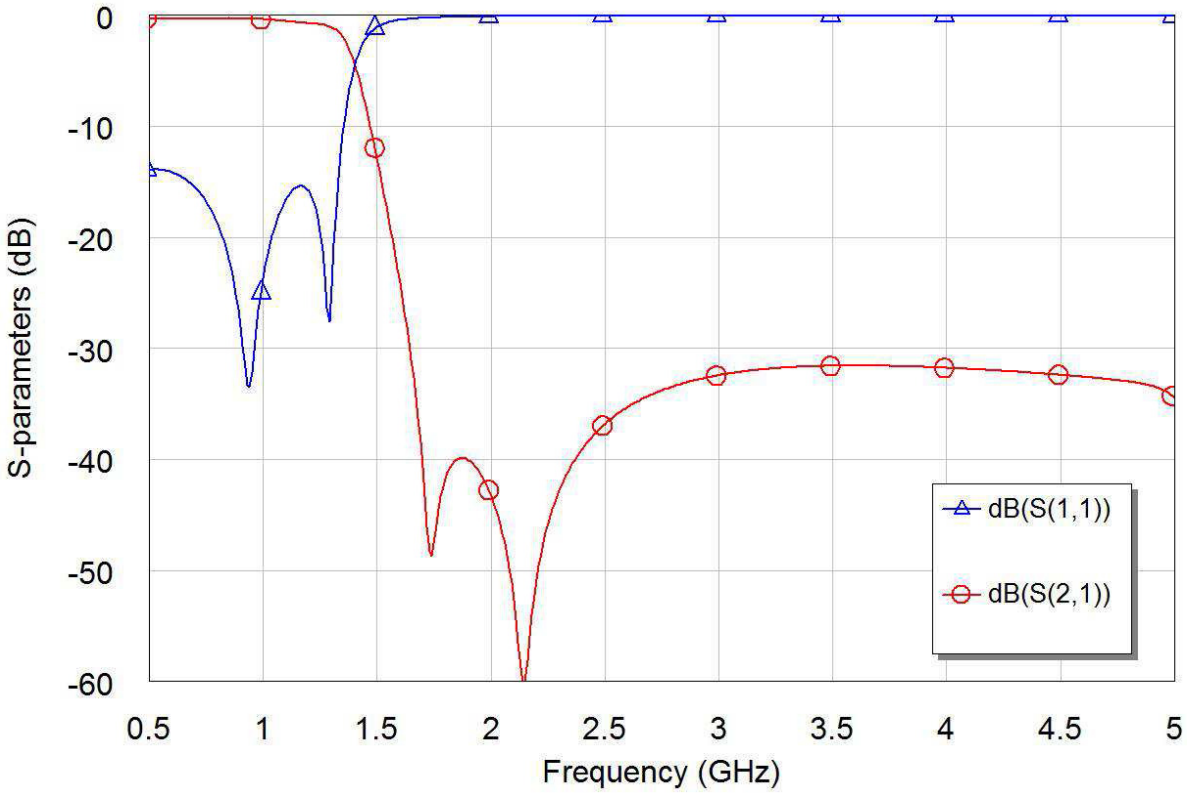
B. ELECTRICAL CHARACTERISTICS:

Source impedance (unbalanced) : Zs = 50 Ω
Load Impedance (balanced) : ZL = 50 Ω

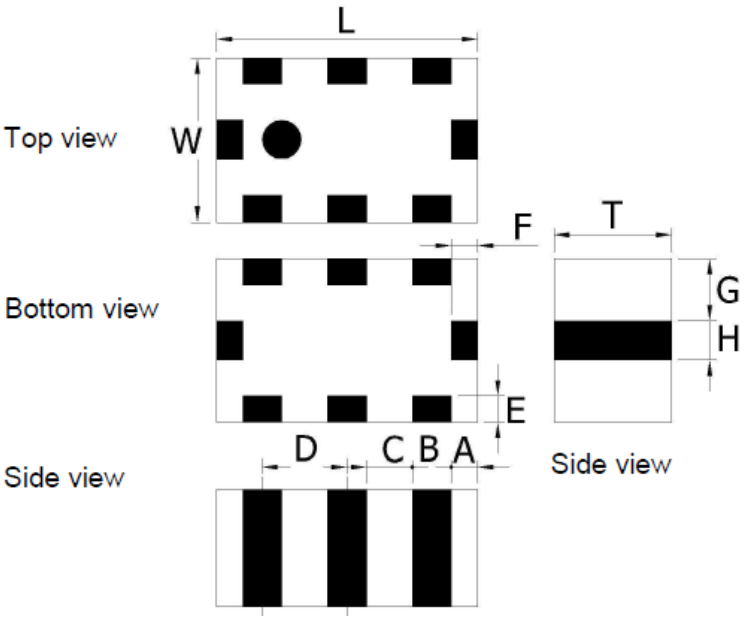
Item	Unit	Spec
Frequency Range	MHz	902.5±12.5
Insertion loss (890 ~ 915 MHz) 25℃ **IL**	dB	0.6 Max
Insertion loss (890 ~ 915 MHz) -40~85℃ **IL**	dB	0.75 Max
VSWR	dB	2.0 Max
Attenuation (Reference level from 0 dB)		
1720 ~ 1765 MHz	dB	40 Min
1780 ~ 1830 MHz	dB	30 Min
2670 ~ 2745 MHz	dB	30 Min

C. FREQUENCY CHARACTERISTICS:

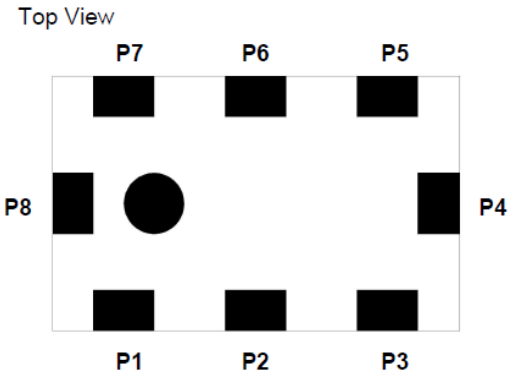
Frequency Response



D. Outline Drawing :



L	2.00 ± 0.15
W	1.25 ± 0.10
T	0.95 ± 0.10
A	0.20 ± 0.10
B	0.30 ± 0.10
C	0.35 ± 0.10
D	0.65 ± 0.10
E	0.20 ± 0.10
F	0.20 ± 0.10
G	0.475 ± 0.10
H	0.30 ± 0.10

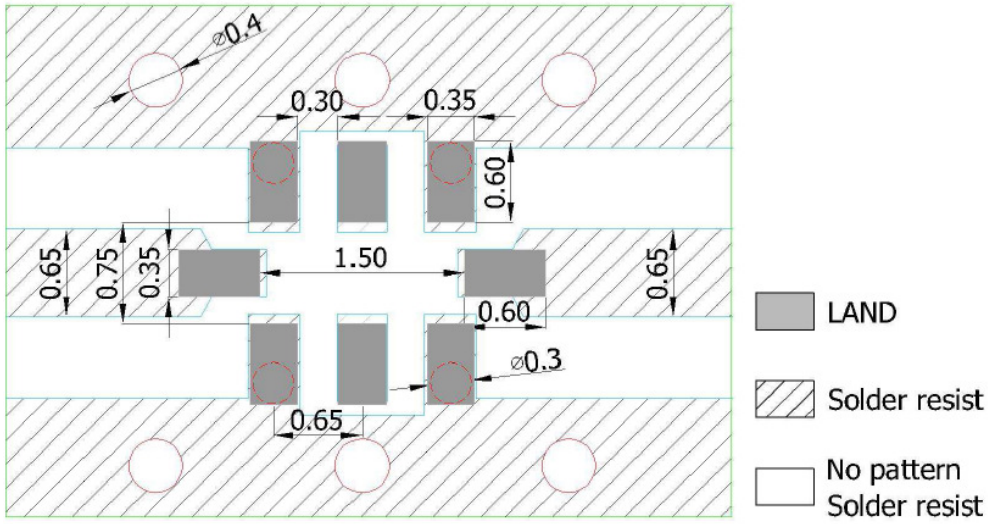


PIN	Definition	PIN	Definition
P1	Ground	P5	Ground
P2	NC	P6	NC
P3	Ground	P7	Ground
P4	Input / output	P8	Input / output

Date code

RF	LPF	2012	0G9	D	1	T
RF device	**Product Code** LPF : Low Pass Filter	**Dimension code** Per 2 digits of Length, Width, : e.g. : 2012 = Length 20, Width 12,	**Central Frequency** 0G9 :0.9 GHz	**Application** D :GSM900/ DCS1800	**Specification** Design code	**Packing** T : Reeled

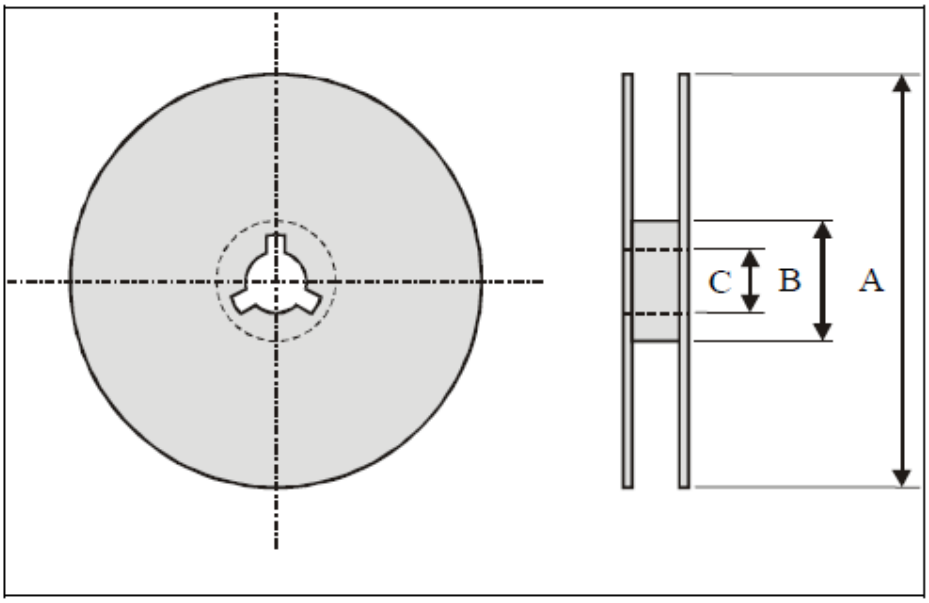
E. PCB Footprint



F. PACKING:

1. REEL DIMENSION

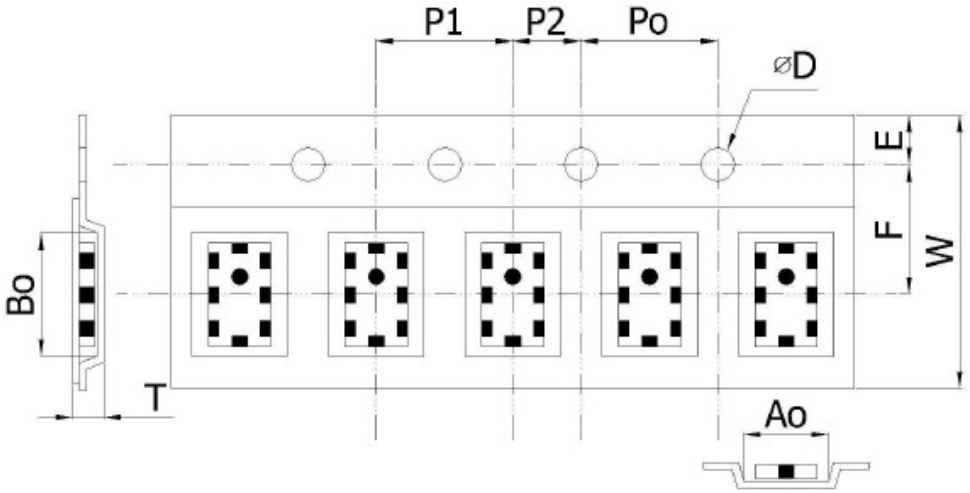
(Please refer to FR-75D10 for packing quantity)



Index	A	B	C
Dimension (mm)	178.0	60.0	13.0

2. TAPE

DIMENSION



Plastic Tape specifications (unit :mm)

Index	Ao	Bo	ΦD	T	W
Dimension (mm)	1.40 ± 0.10	2.30 ± 0.10	1.55 + 0.10	1.10 ± 0.10	8.0 ± 0.10
Index	E	F	Po	P1	P2
Dimension (mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10

G . RECOMMENDED REFLOW PROFILE :

Typical examples of soldering processes that provide reliable joints without any damage are given in Fig 2,

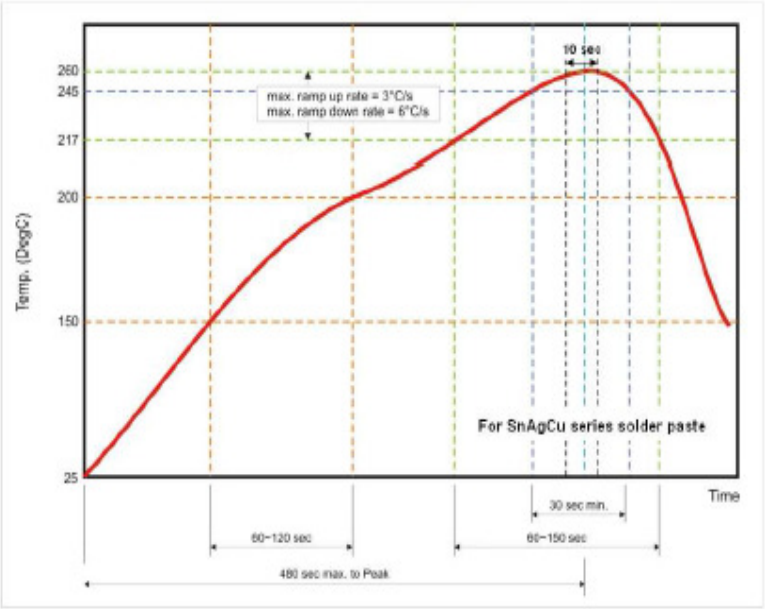


Fig 2. Infrared soldering profile