

SAW Filter 788 MHz

MODEL NO.:TA1898D

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 1 (MSL1)
6. ESD: 100 V(MM), 200 V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

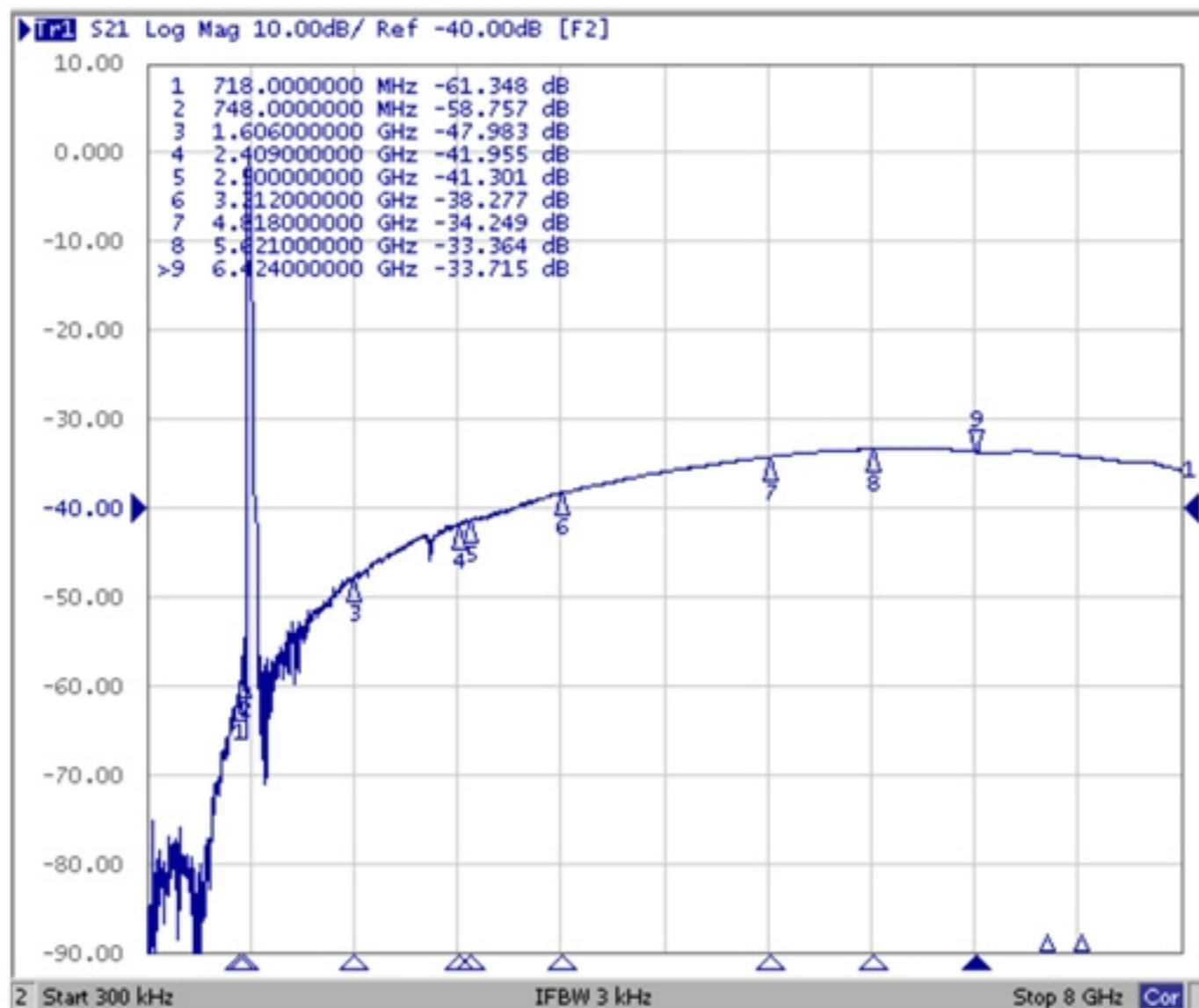
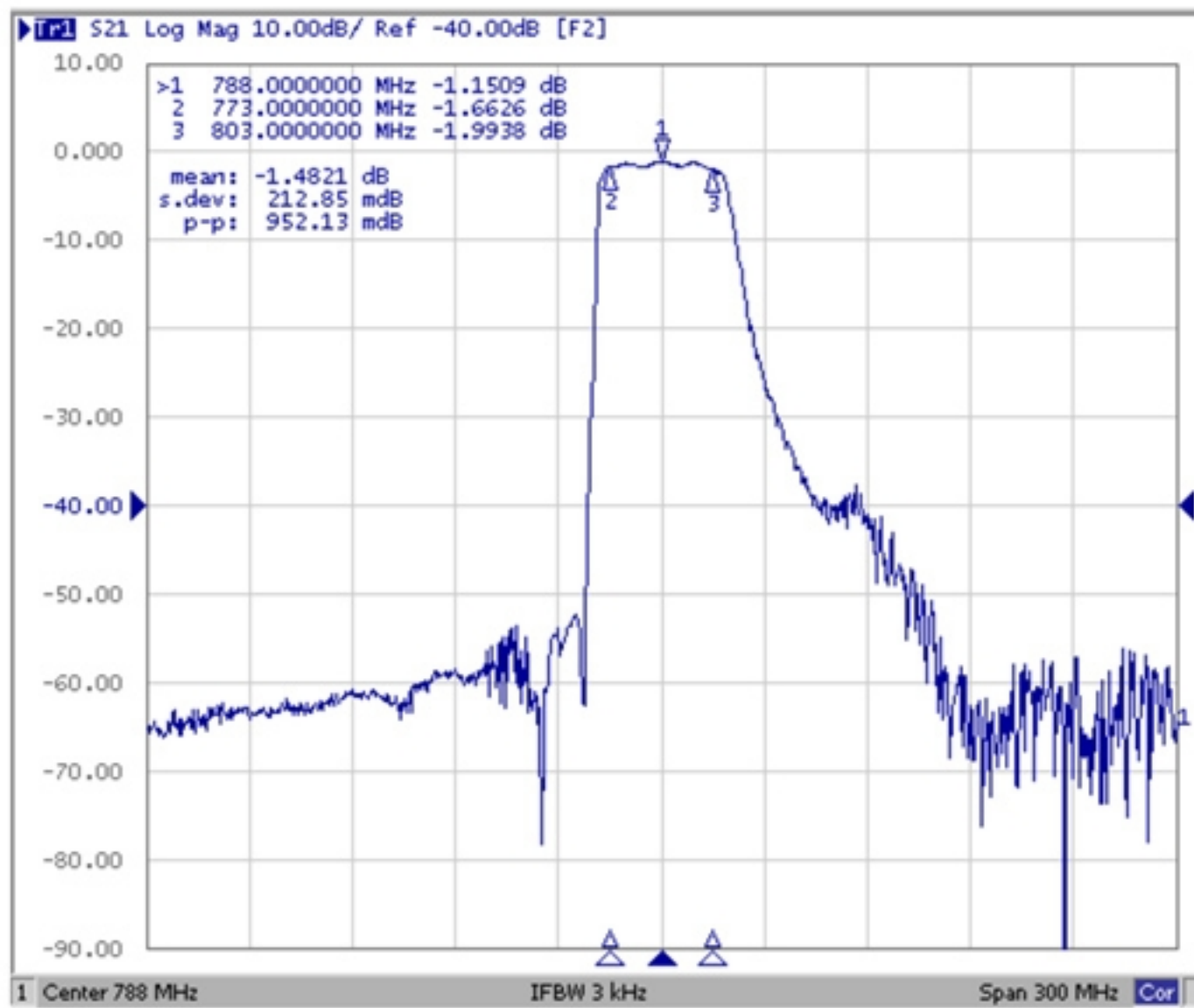
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

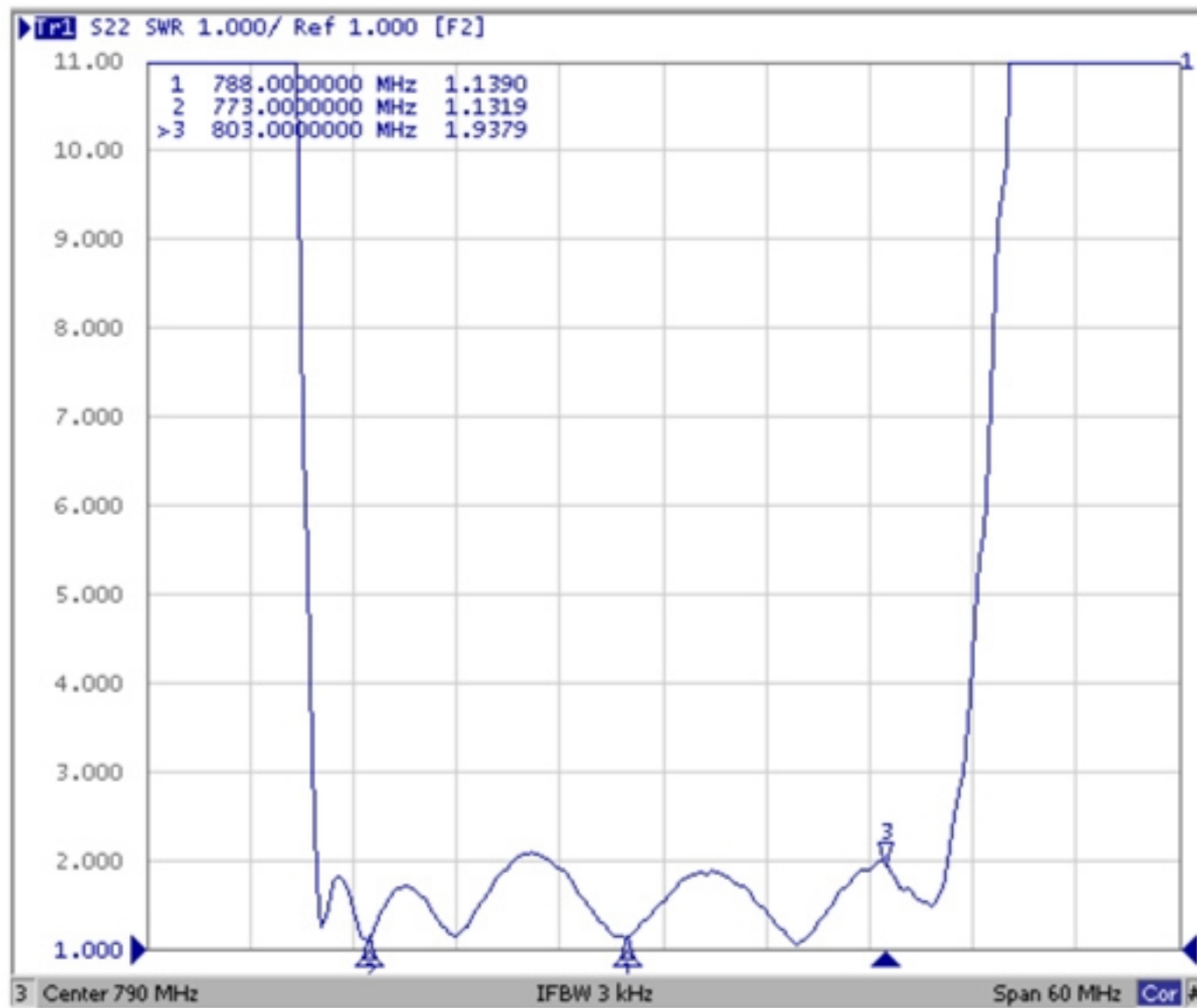
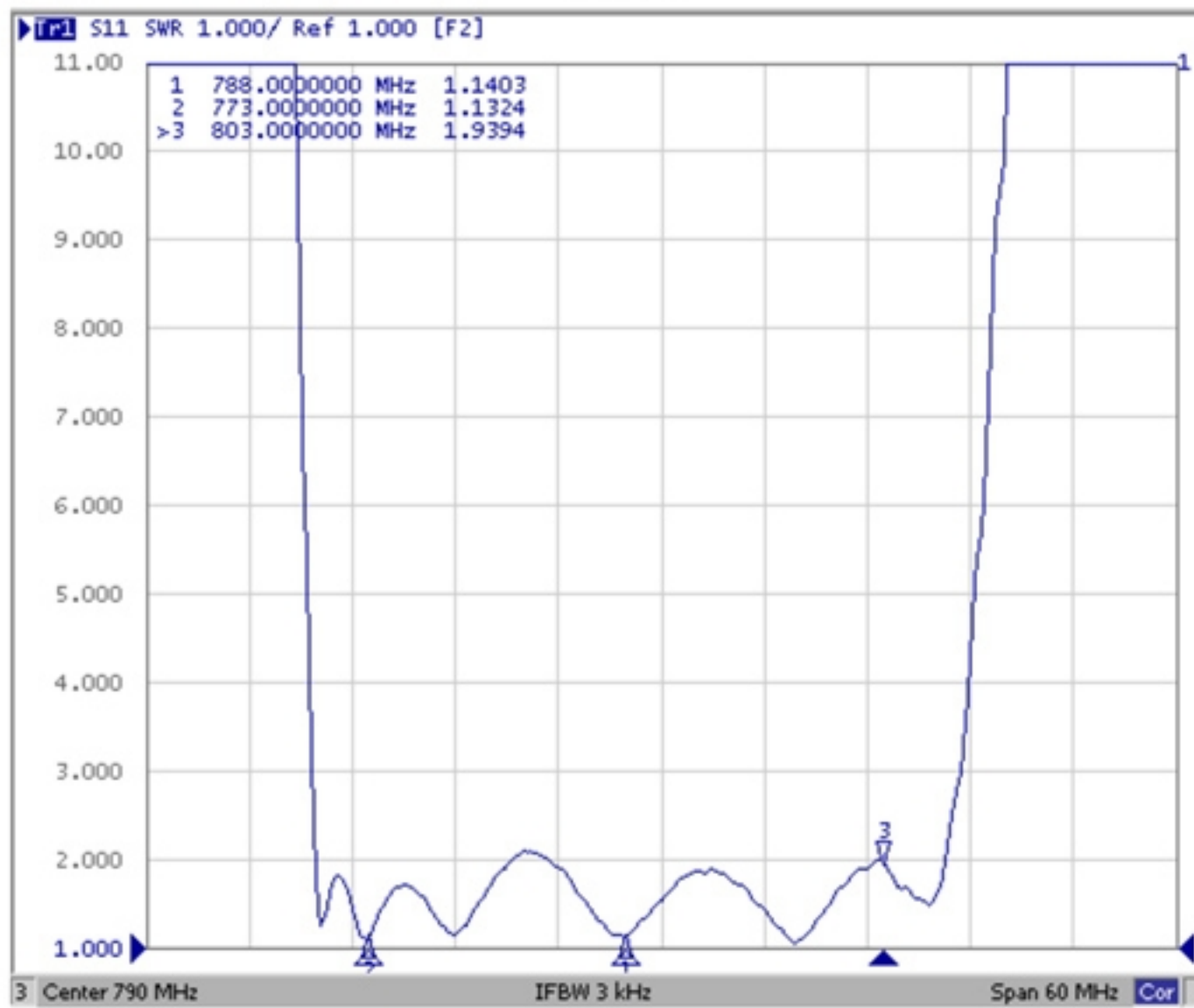
Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	788	-
Insertion Loss (773~803 MHz) IL	dB	-	2.0	3.0
Amplitude Ripple (773~803 MHz)	dBp-p	-	1.0	2.3
VSWR (773~803 MHz)	-	-	2.2	2.5
Attenuation (Reference level from 0 dB)				
703 ~ 718 MHz	dB	46	60	-
718 ~ 748 MHz	dB	46	52	-
1546 ~ 1606 MHz	dB	40	49	-
1559 ~ 1606 MHz	dB	40	49	-
2319 ~ 2409 MHz	dB	35	43	-
2400 ~ 2500 MHz	dB	35	43	-
3092 ~ 3212 MHz	dB	30	41	-
3865 ~ 4015 MHz	dB	30	39	-
4638 ~ 4818 MHz	dB	30	38	-
4900 ~ 5950 MHz	dB	30	38	-
5411 ~ 5621 MHz	dB	30	38	-
6184 ~ 6424 MHz	dB	30	39	-
6957 ~ 7227 MHz	dB	30	38	-

C. FREQUENCY CHARACTERISTICS:

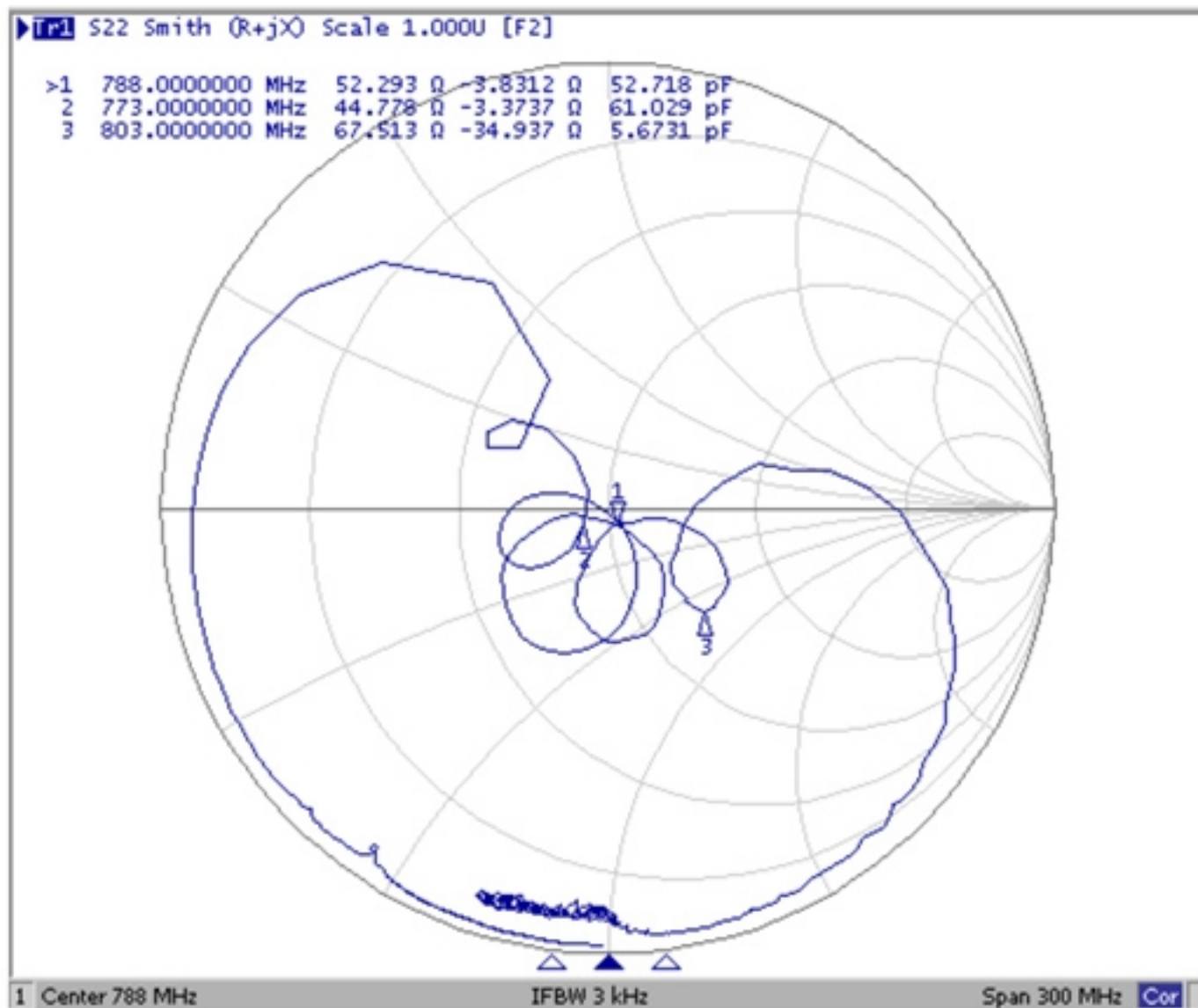
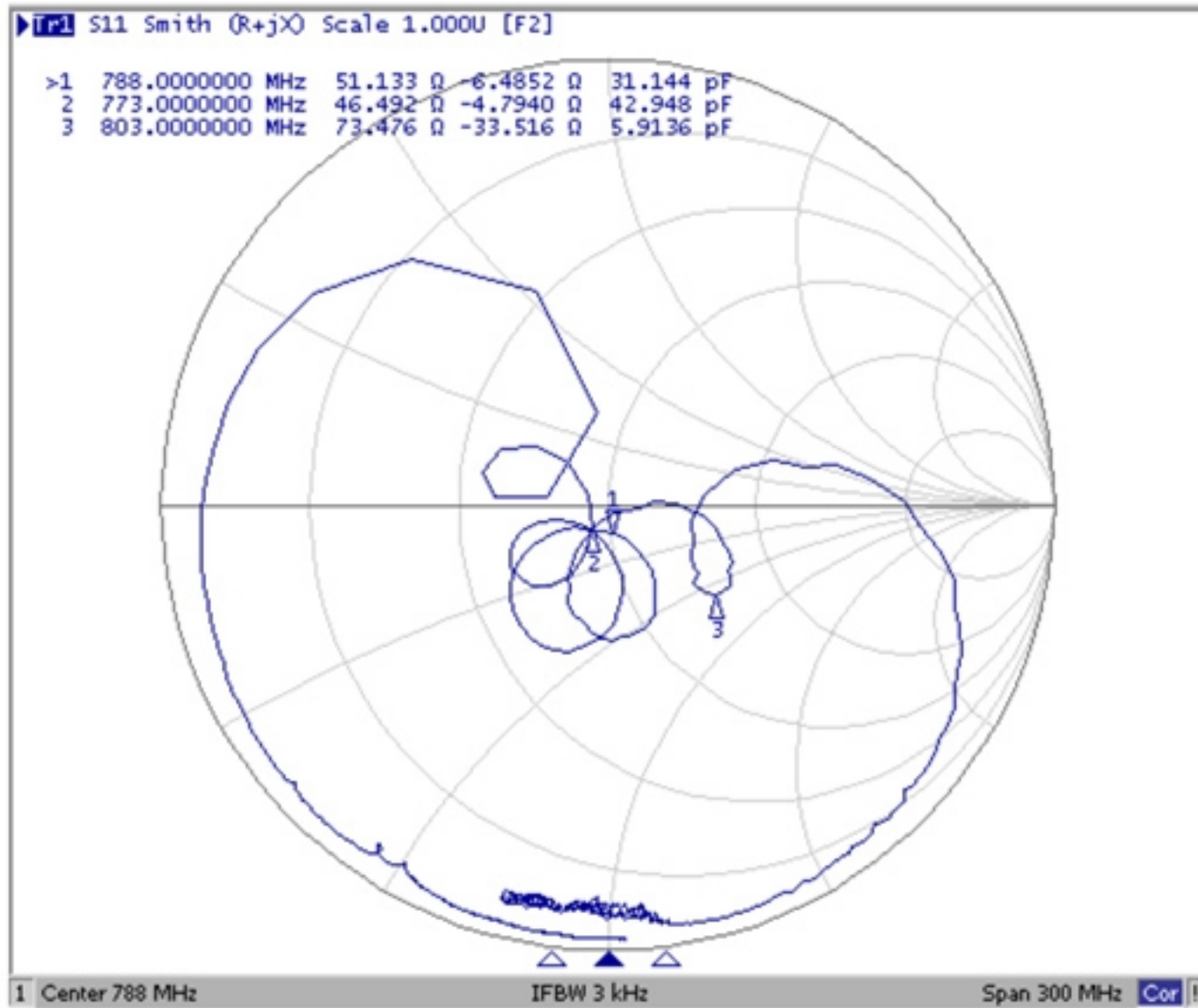


Reflection Functions:

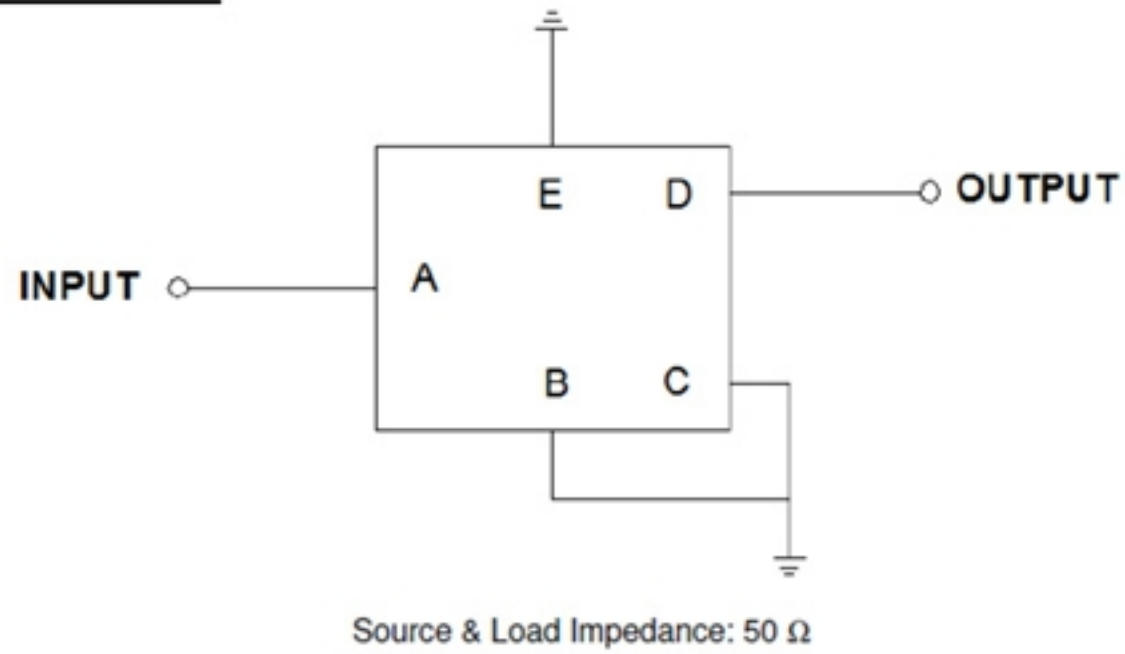
VSWR



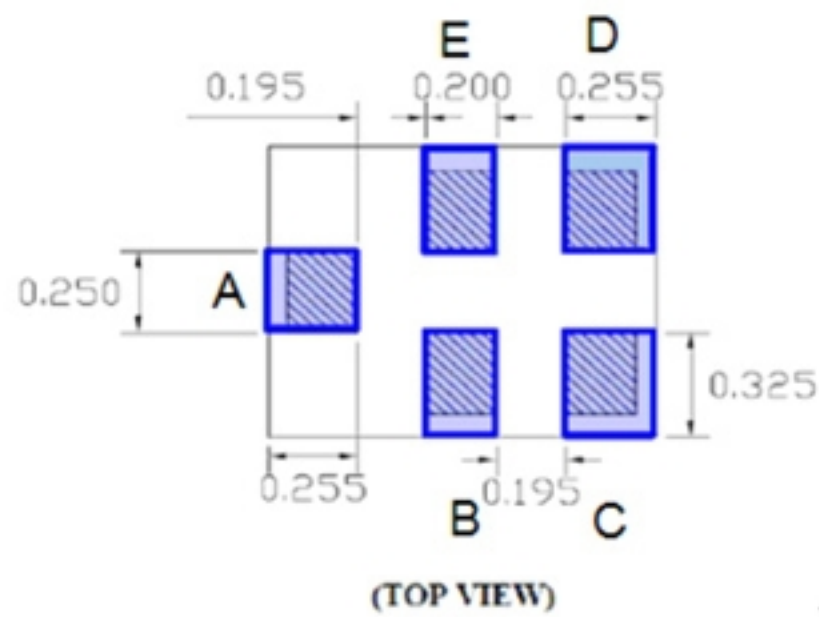
Smith Chart



D. MEASUREMENT CIRCUIT:

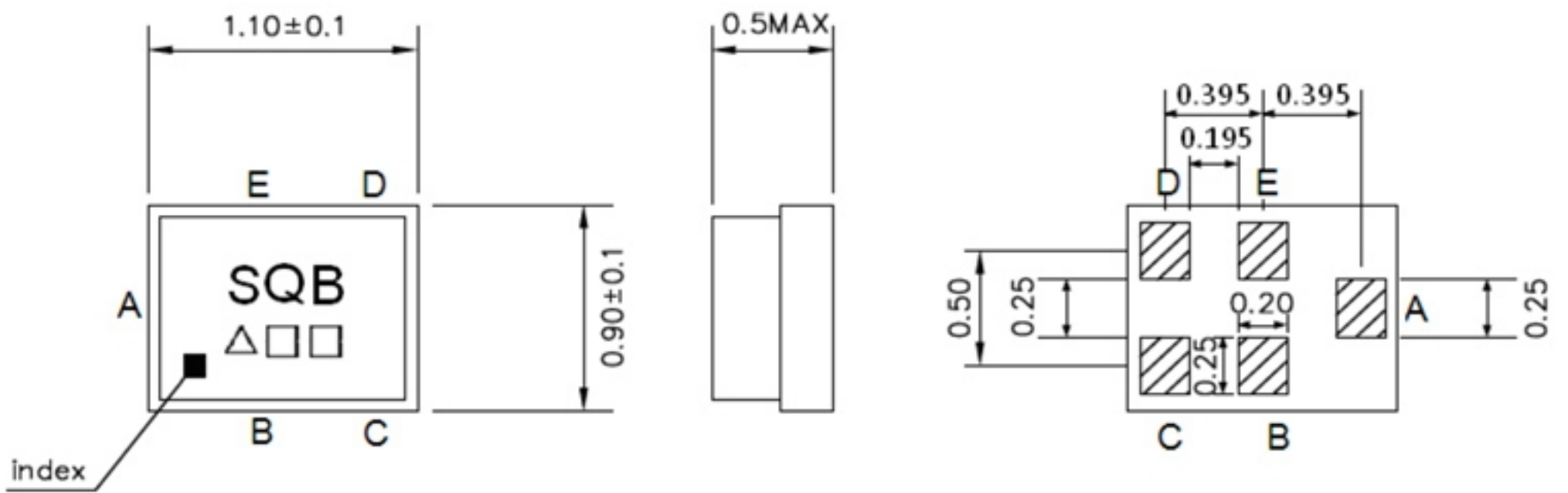


E. PCB Footprint:



F. OUTLINE DRAWING:

Device size: 1.1typ. x 0.9typ. x 0.5max.



Unit : mm

Pin Configuration

Pin No.	Symbol	Function
A	IN	Unbalanced pin
B	GND	Ground
C	GND	Ground
D	OUT	Unbalanced pin
E	GND	Ground

△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

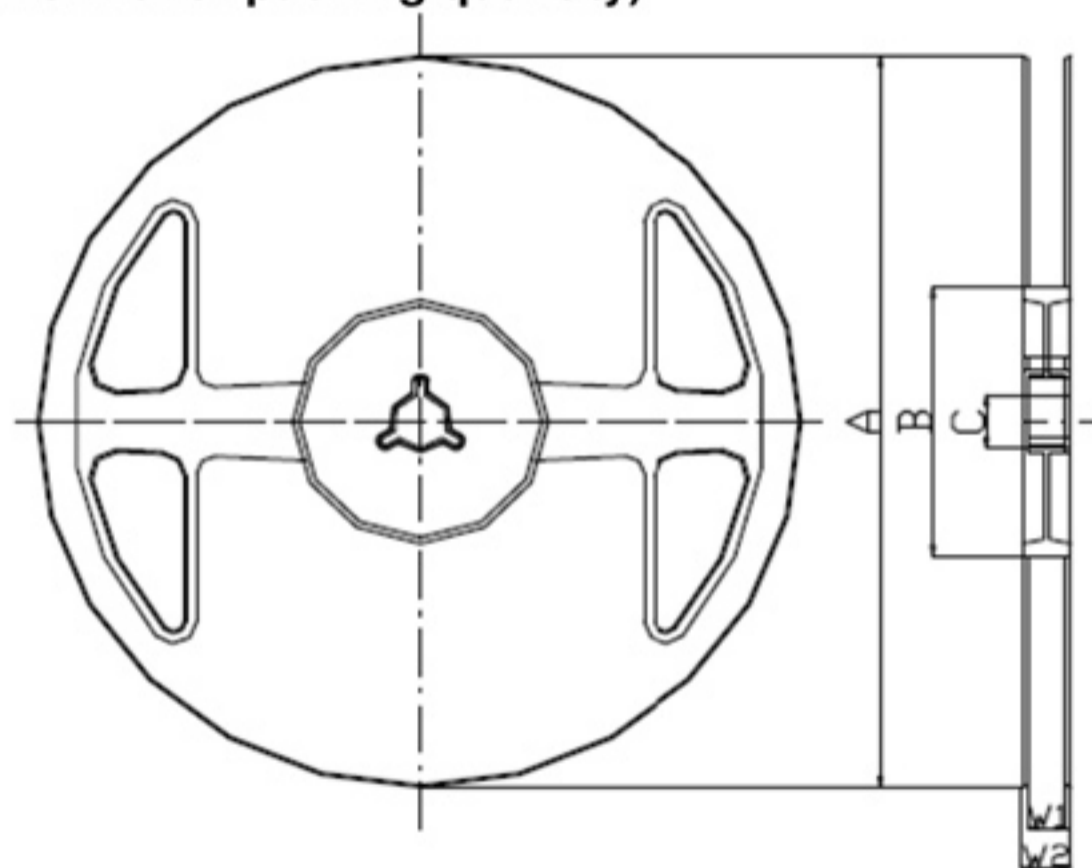
Date Code:

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	A	B	C	⊕	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	∇	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

G. PACKING: (Ref: WI-75M03)

1. REEL DIMENSION

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



Materials of Reel

Material : Polystyrene + Carbon

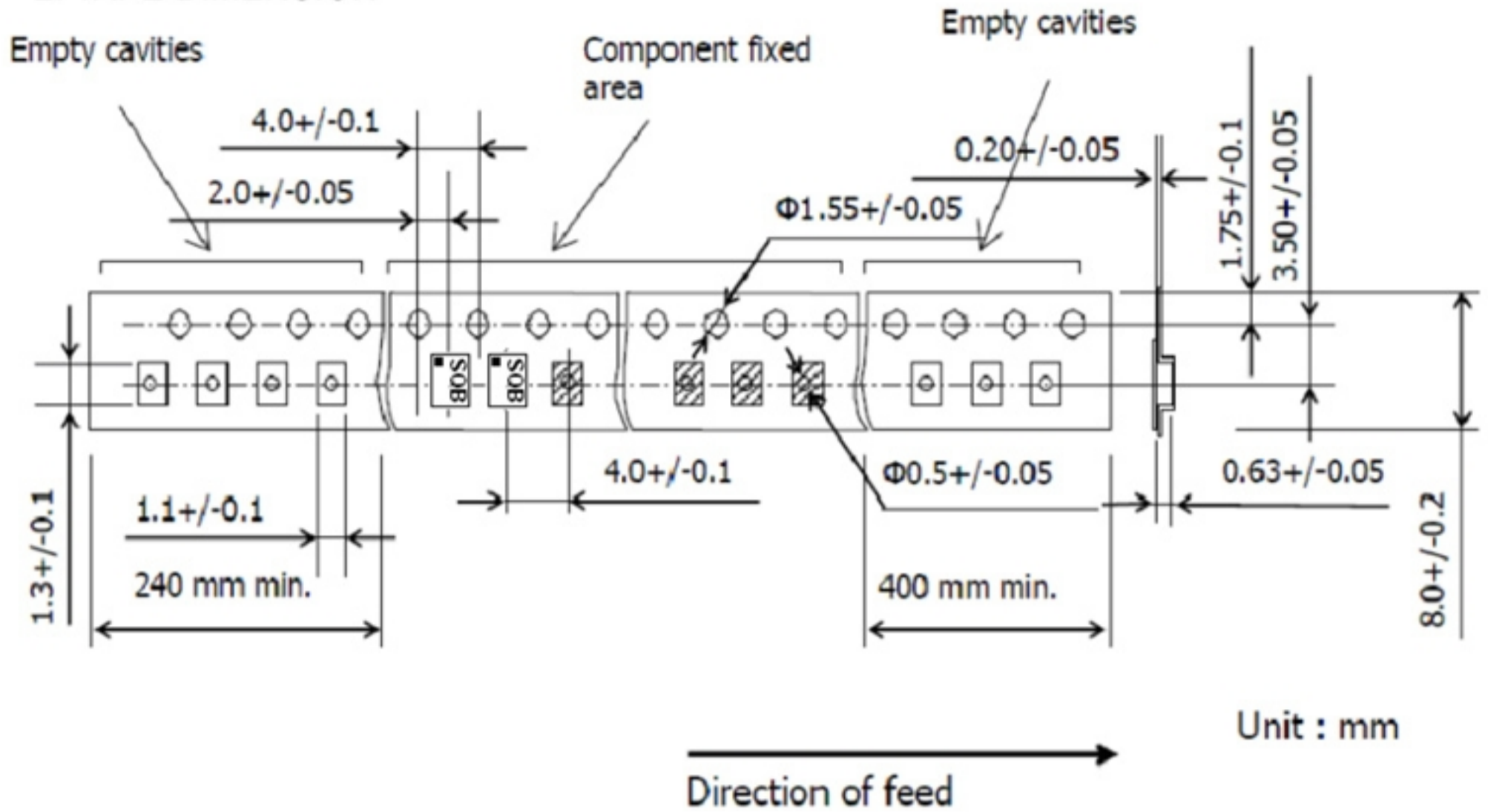
Color : Black

Surface resistance (reference value) : $10^9 \Omega/\text{sq}$ Max.

Unit : mm

A	B	C	W1	W2
ϕ 180.0 +0.0/-1.5	ϕ 66.0 +/-0.5	ϕ 13.0 +/-0.2	9.0 +1.0/-0.0	11.4 +/-1.0

2. TAPE DIMENSION



H. Recommended Reflow Profile:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

