

SAW Filter 314.45MHz

MODEL NO.:TA1778C

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 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 (MSL): Level 1

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

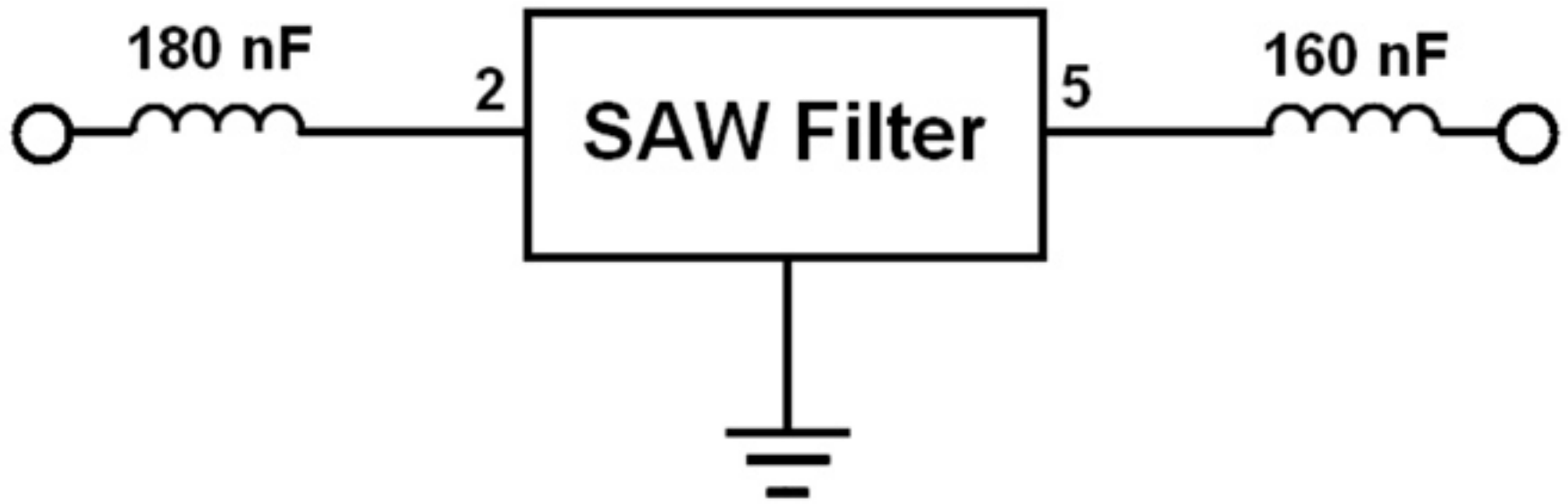
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

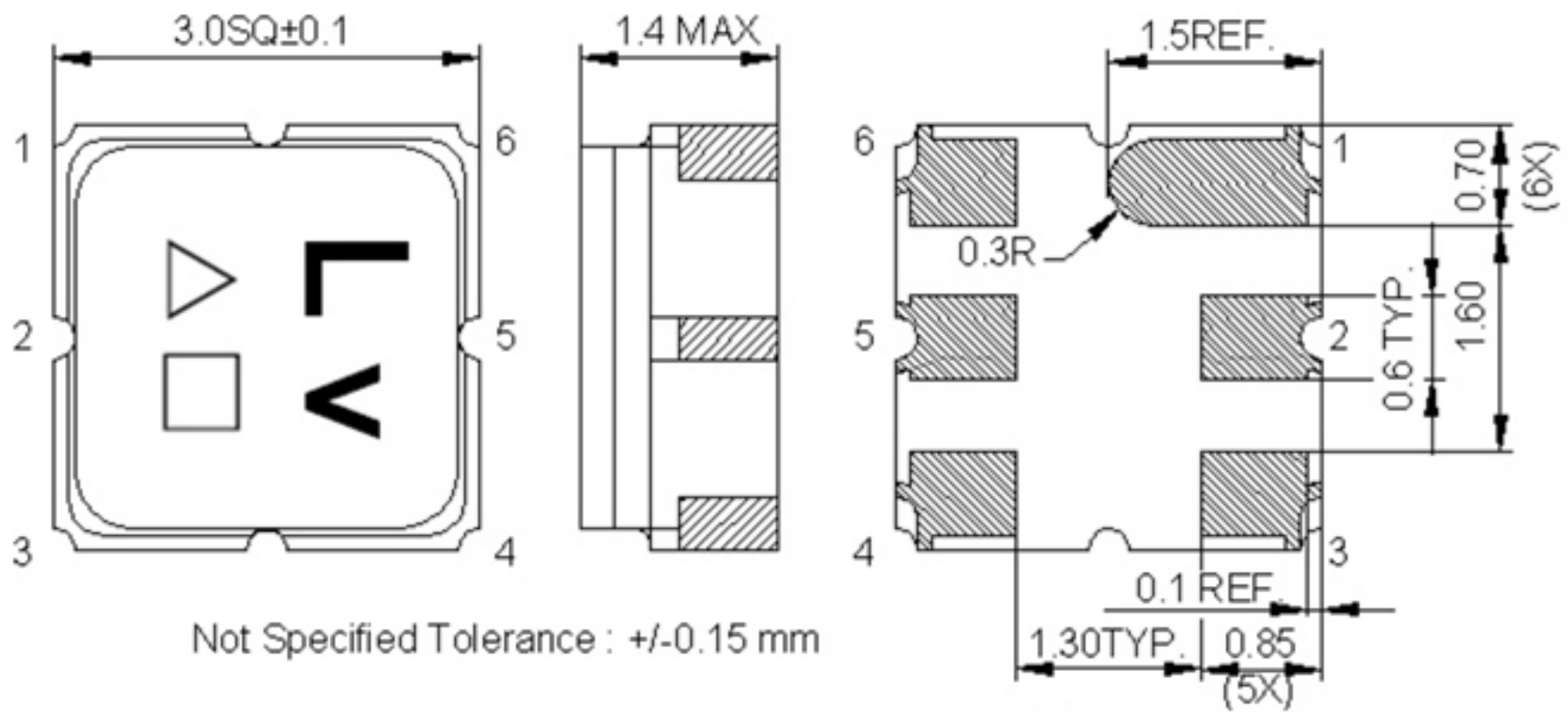
Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	Min	Typ.	Max
Center Frequency F_c	MHz	-	314.45	-
Minimum Insertion Loss (313.92 ~ 314.98 MHz) α_{min}	dB	-	2.7	3.0
Pass Band (Relative to α_{min})				
313.92 ~ 314.98 MHz	dB	-	1.6	2.5
313.90 ~ 315.00 MHz	dB	-	2.1	3.0
Relative Attenuation (Relative to 0 dB)				
10 ~ 200 MHz	dB	55	62	-
300 ~ 310 MHz	dB	30	34	-
310 ~ 313 MHz	dB	12	18	-
316 ~ 326 MHz	dB	12	18	-
326 ~ 340 MHz	dB	30	37	-
340 ~ 389 MHz	dB	35	42	-
389 ~ 568 MHz	dB	50	53	-
568 ~ 1164 MHz	dB	50	62	-
1164 ~ 2500 MHz	dB	50	65	-

C. TEST CIRCUIT:



D. OUTLINE DRAWING:



Not Specified Tolerance : +/-0.15 mm

2: Input
5: Output
Other: Ground
Unit: mm

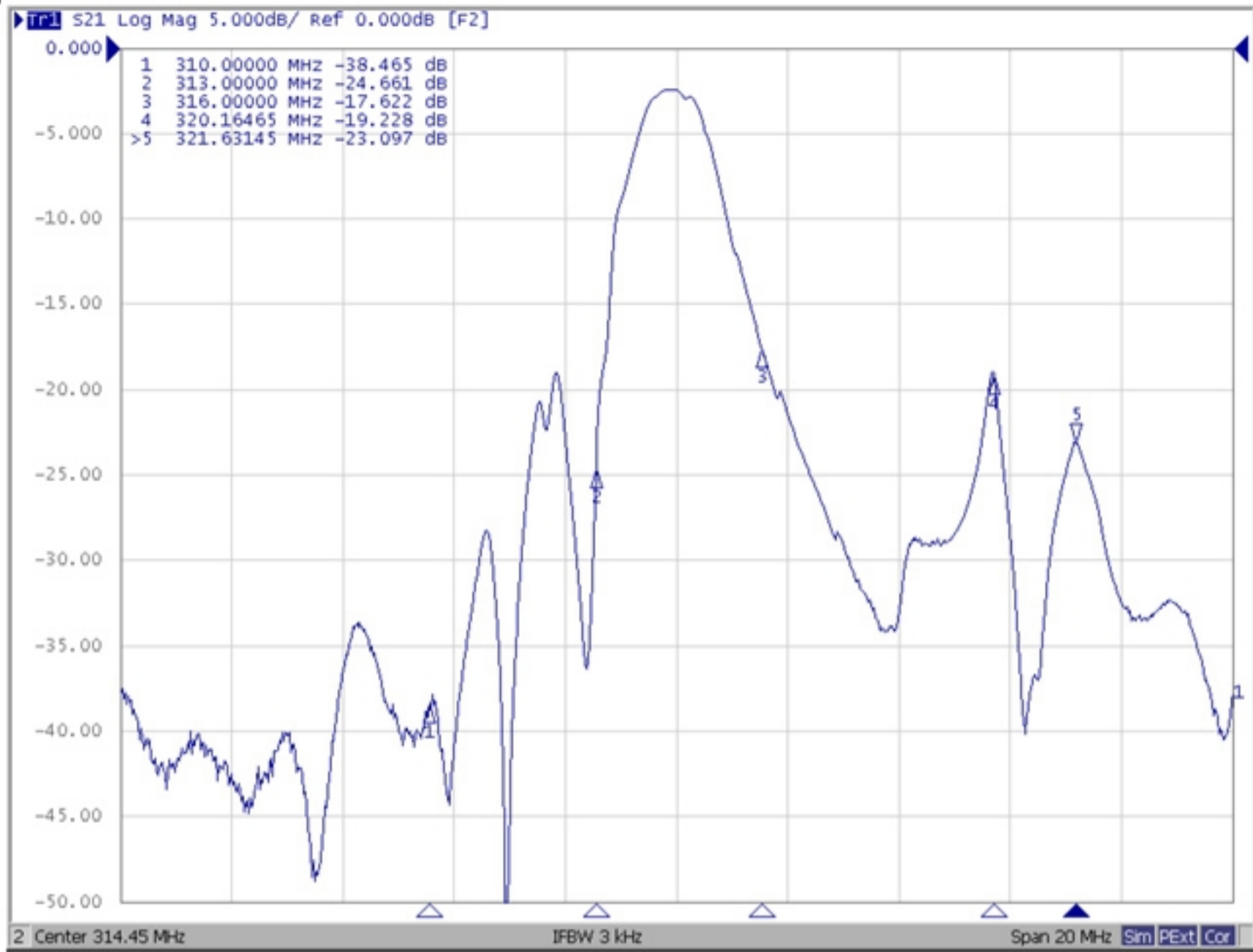
△ : Year Code (2009->9, 2010->0, ..., 2018->8)

□ : Date Code (Follow the table from planner each year)

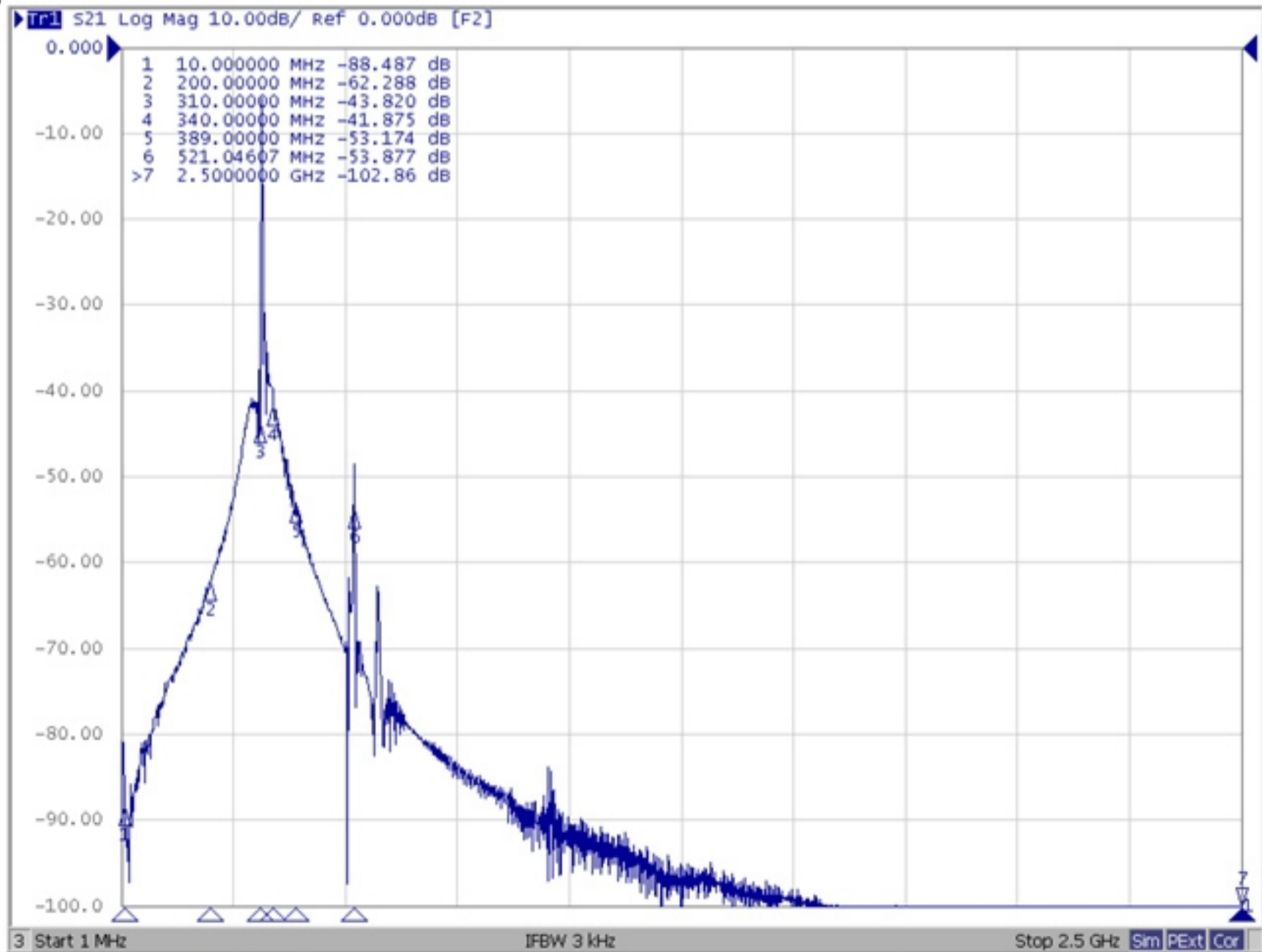
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

E. Frequency Characteristics:

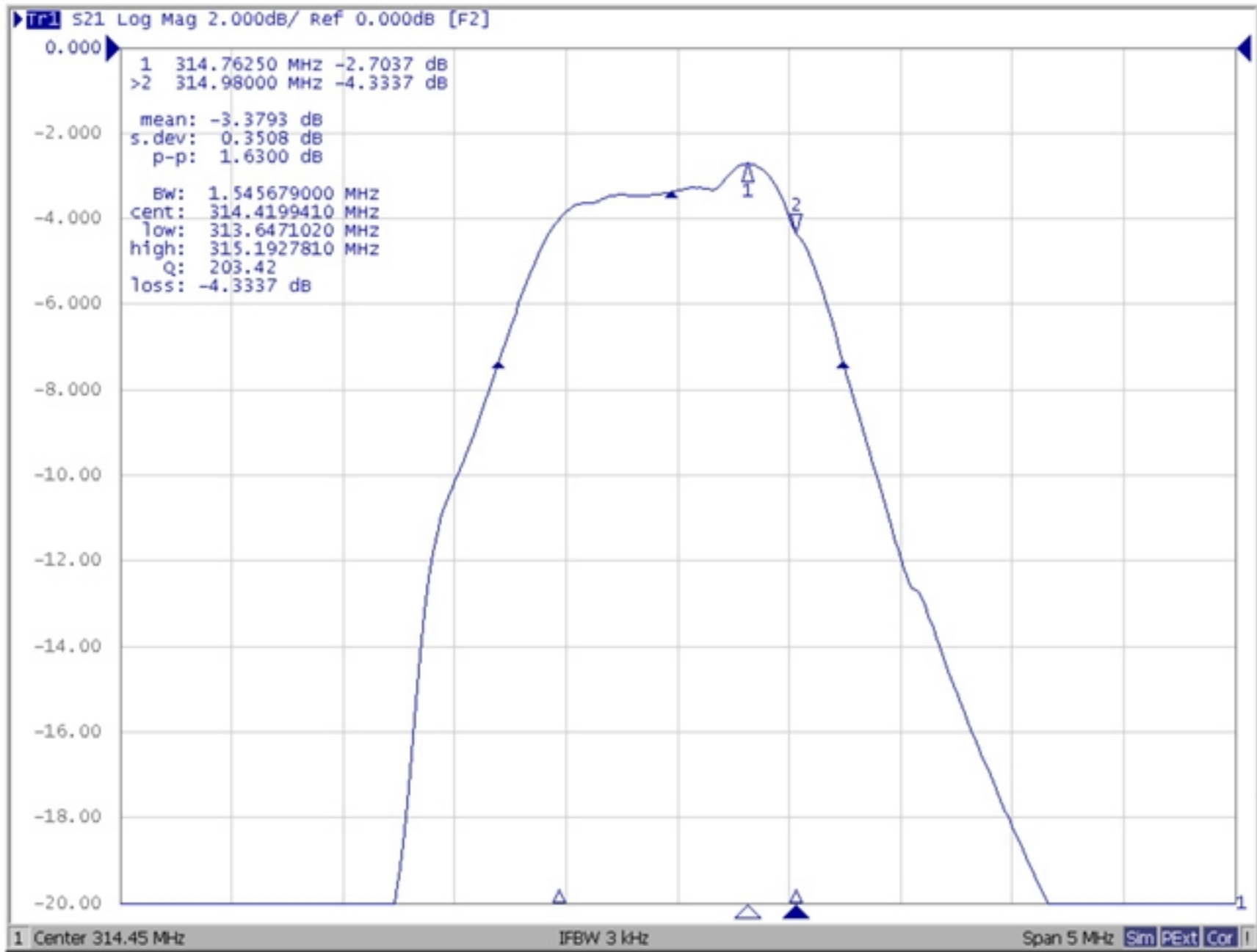
Span 20 MHz



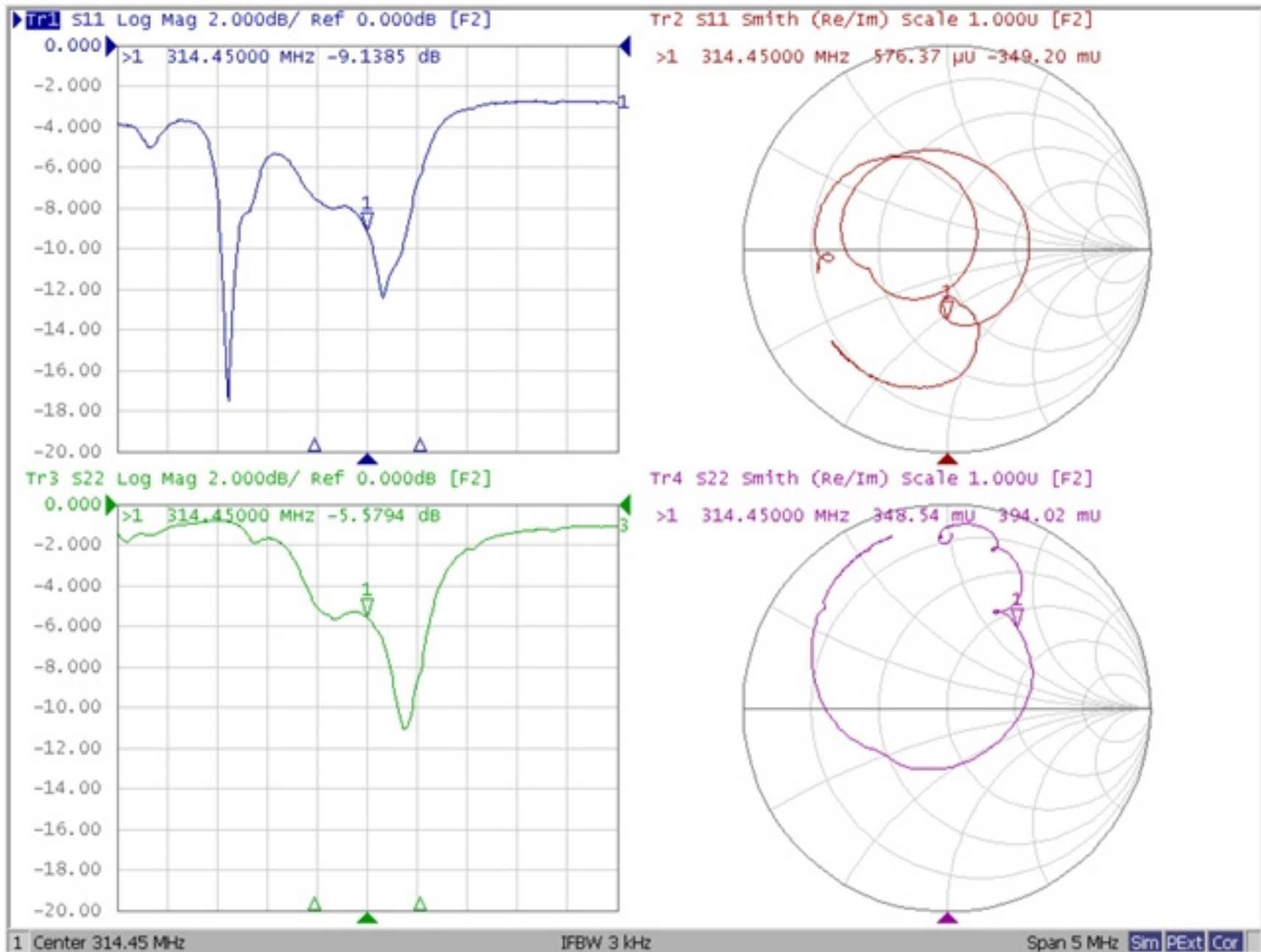
Span 2500 MHz



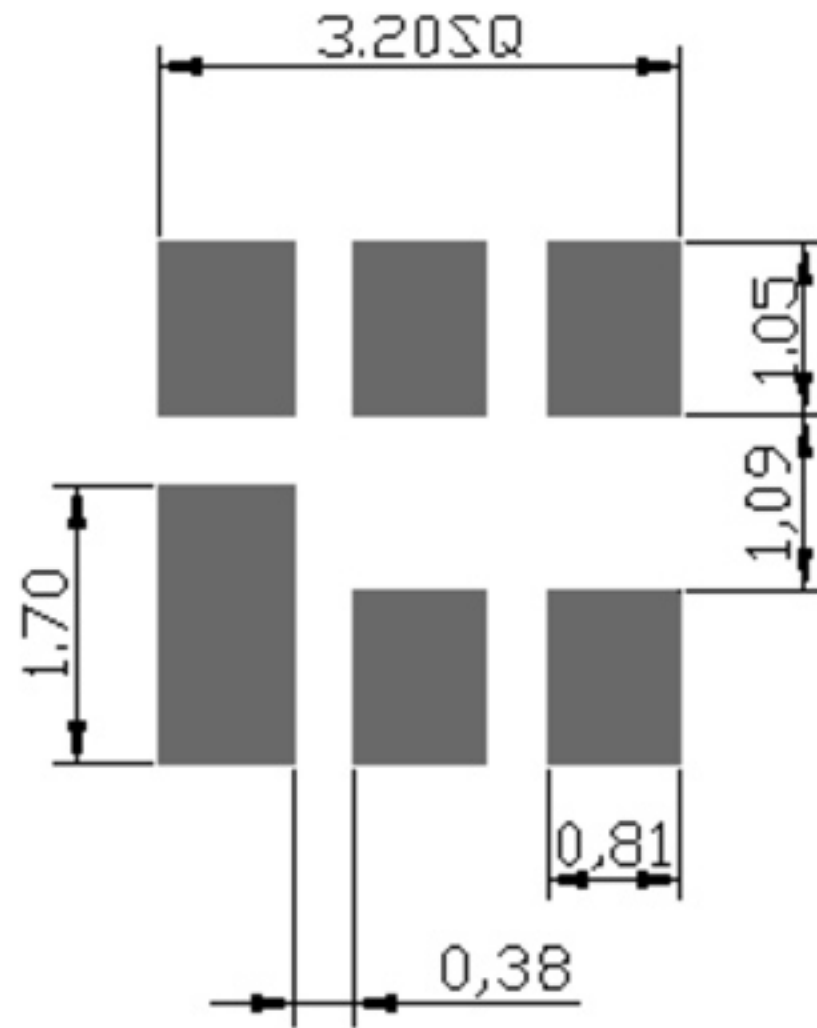
Span 5 MHz



Reflection Characteristic



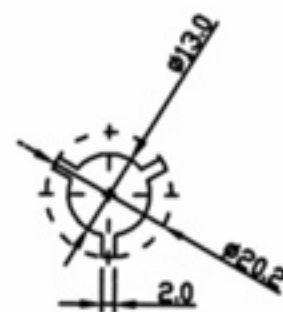
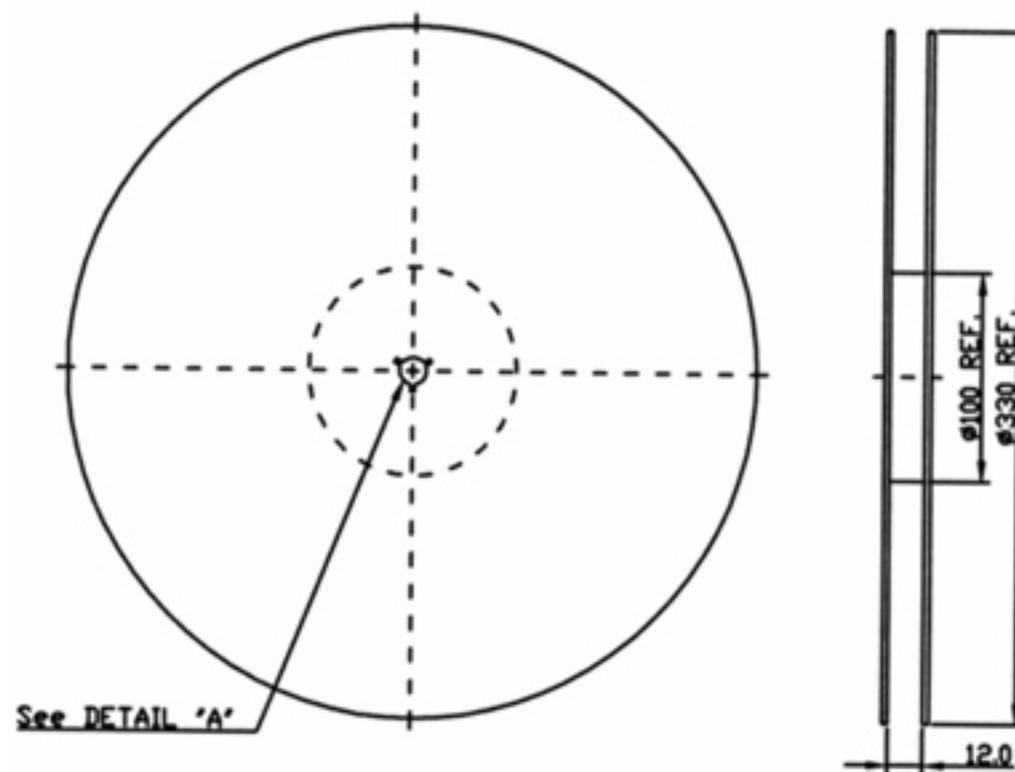
F. PCB FOOTPRINT:



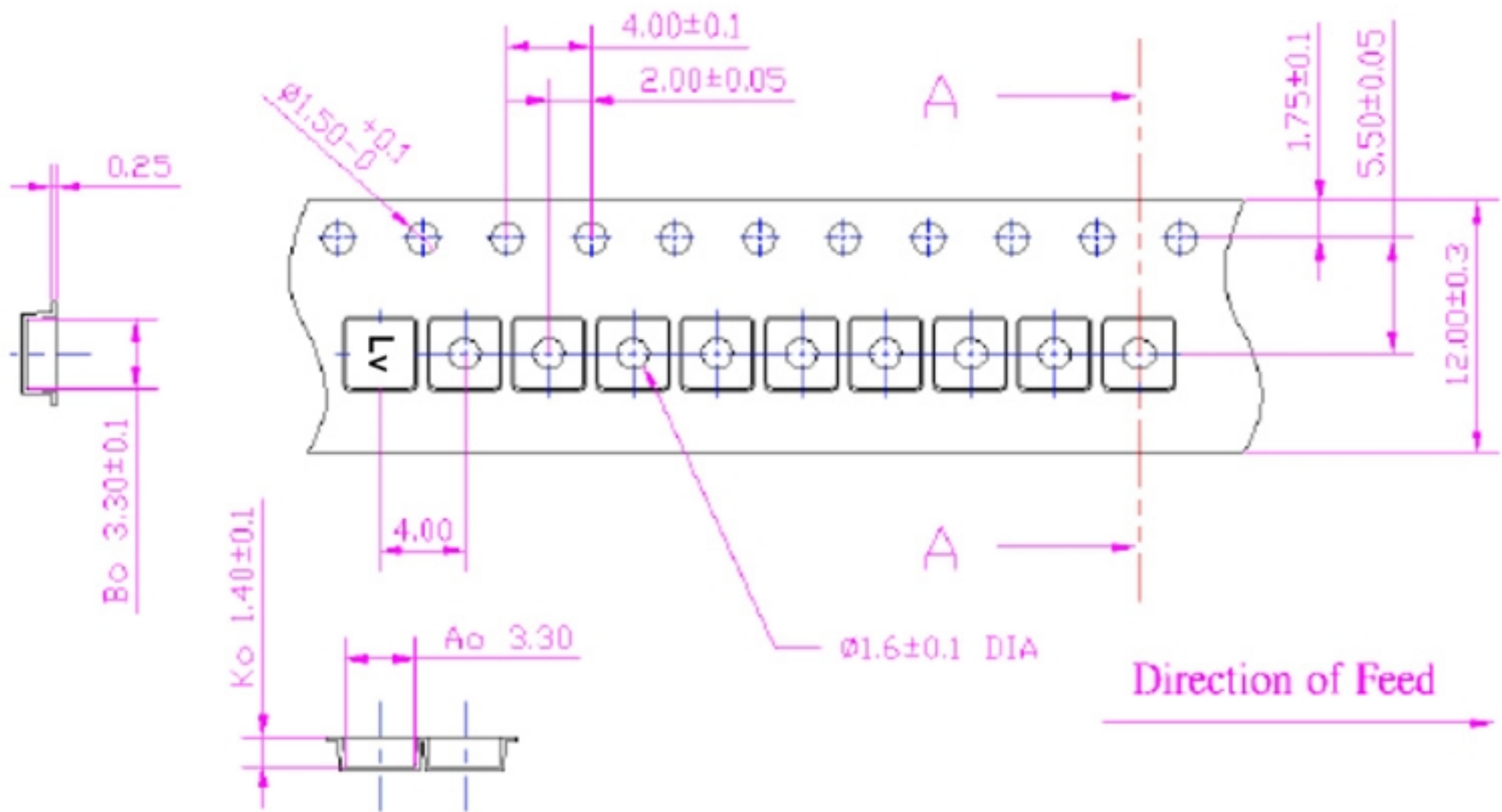
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ 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 $260^\circ\text{C} +0/-5^\circ\text{C}$ peak (20~40sec).
4. Time: 2 times.

