

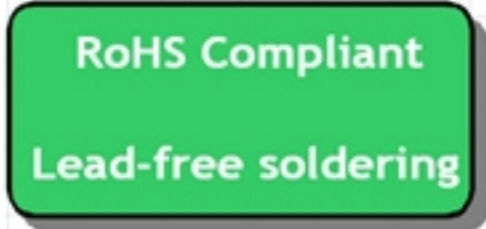
SAW Filter 881.5MHz For Mobile Communication

MODEL NO.: TA0166B ~Low Loss~

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (**MSL 1**)
6. ESD 100V(MM) 200V(HBM)



Electrostatic Sensitive Device (**ESD**)

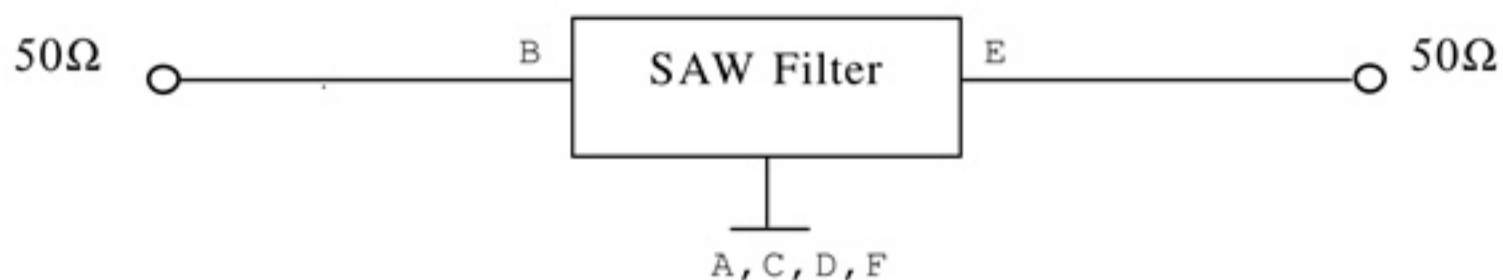
B. ELECTRICAL CHARACTERISTICS:

Characteristics		Min.	Typ.	Max.
Center frequency	Fc (dB)	-	881.5	-
Insertion loss within 869 ~894 MHz	IL (dB)	-	2.2	3.2
Amplitude ripple (p-p) within 869 ~ 894 MHz	(dB)	-	0.9	2.2
Attenuation (Reference level from 0 dB)				
10 ~ 800 MHz	(dB)	20.0	28.0	-
824 ~ 849 MHz	(dB)	35.0	38.0	-
939 ~ 1088 MHz	(dB)	28.0	31.0	-
1088 ~ 1119 MHz	(dB)	28.0	32.0	-
1119 ~ 2600 MHz	(dB)	20.0	26.0	-
VSWR within 869 ~894 MHz		-	1.7	2.2
Source impedance	Zs (Ω)	-	50	-
Load impedance	ZL (Ω)	-	50	-

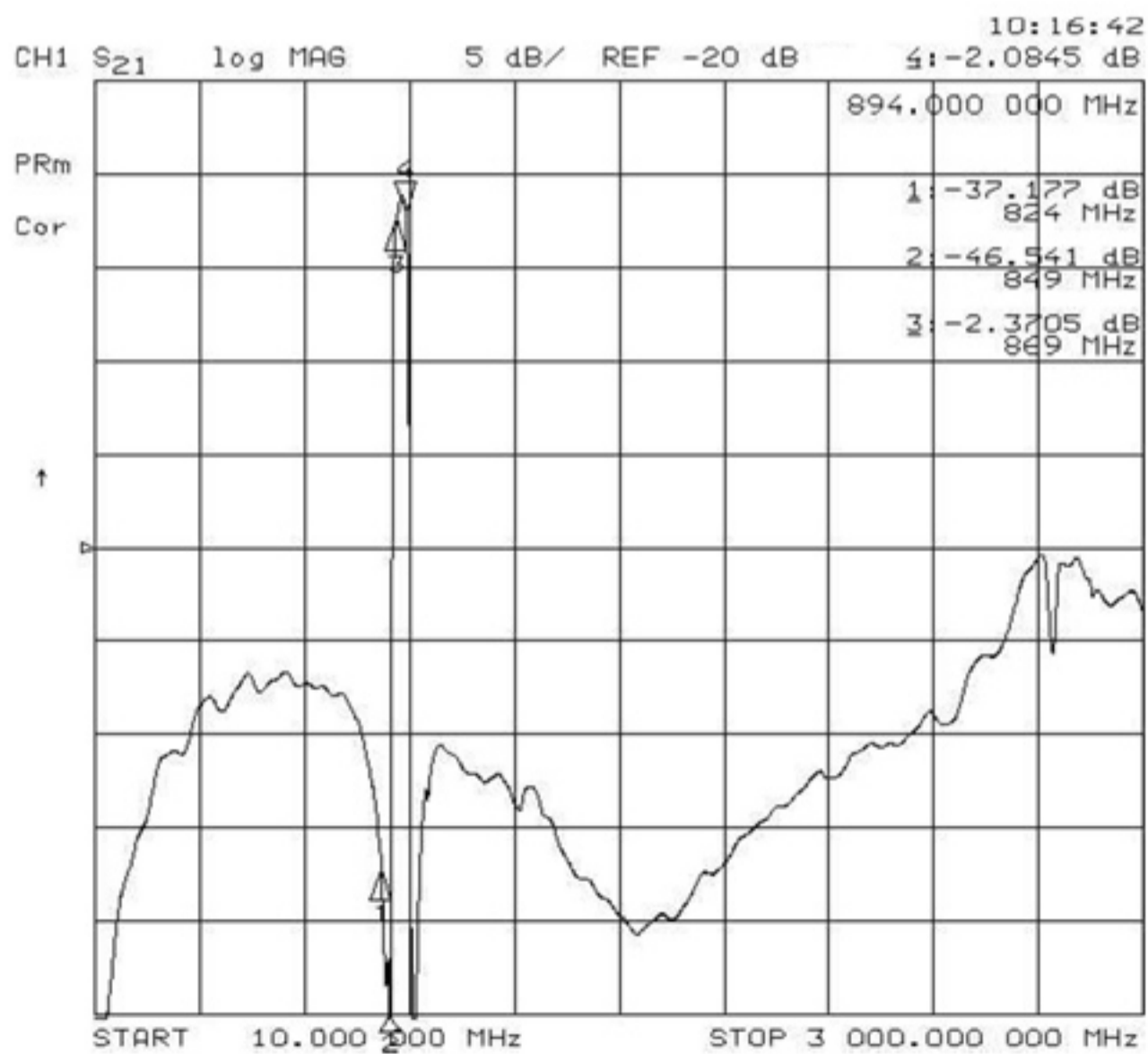
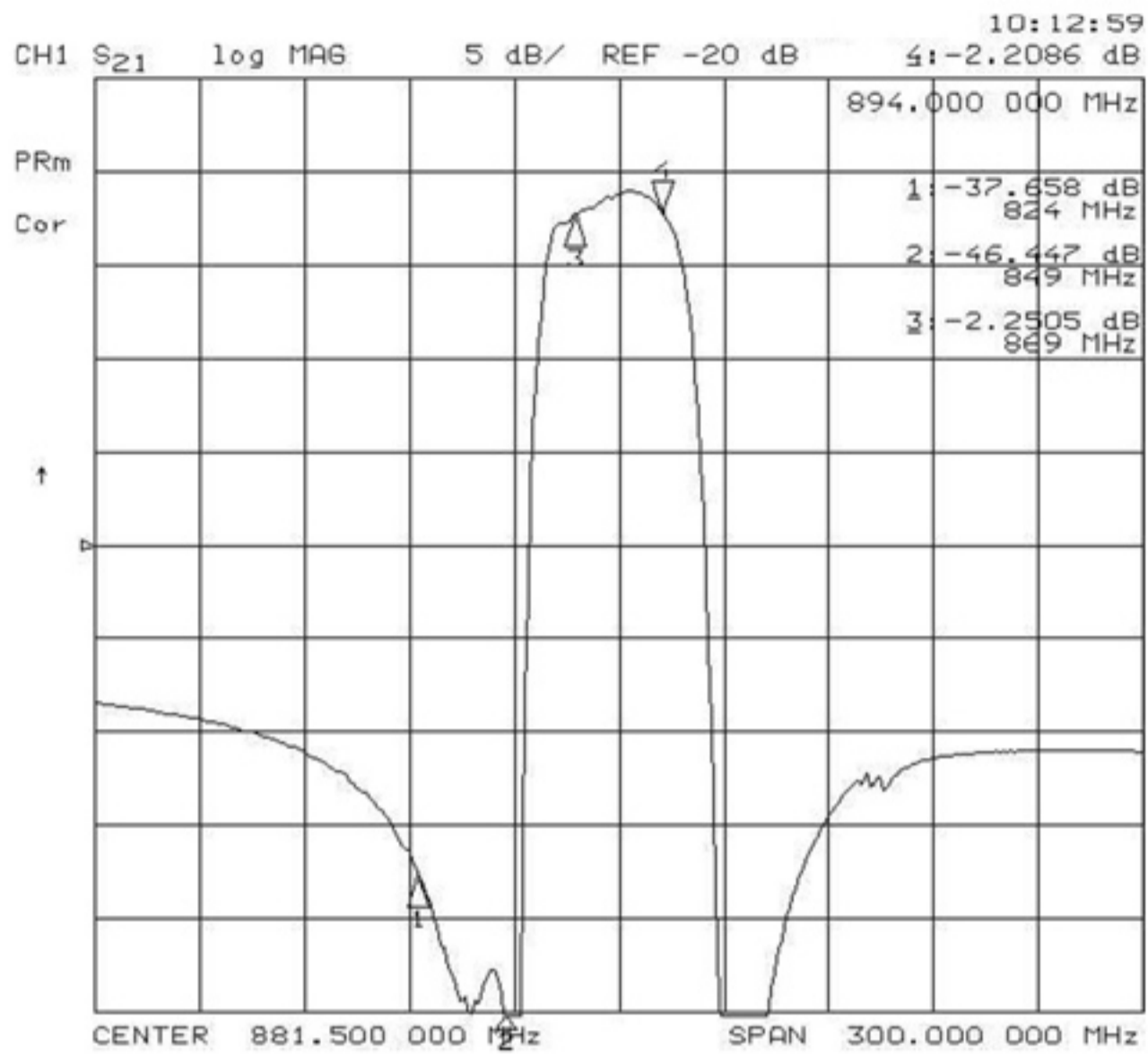
Note1. No matching network required for operation at 50 Ω

MEASUREMENT CIRCUIT:

HP Network analyzer

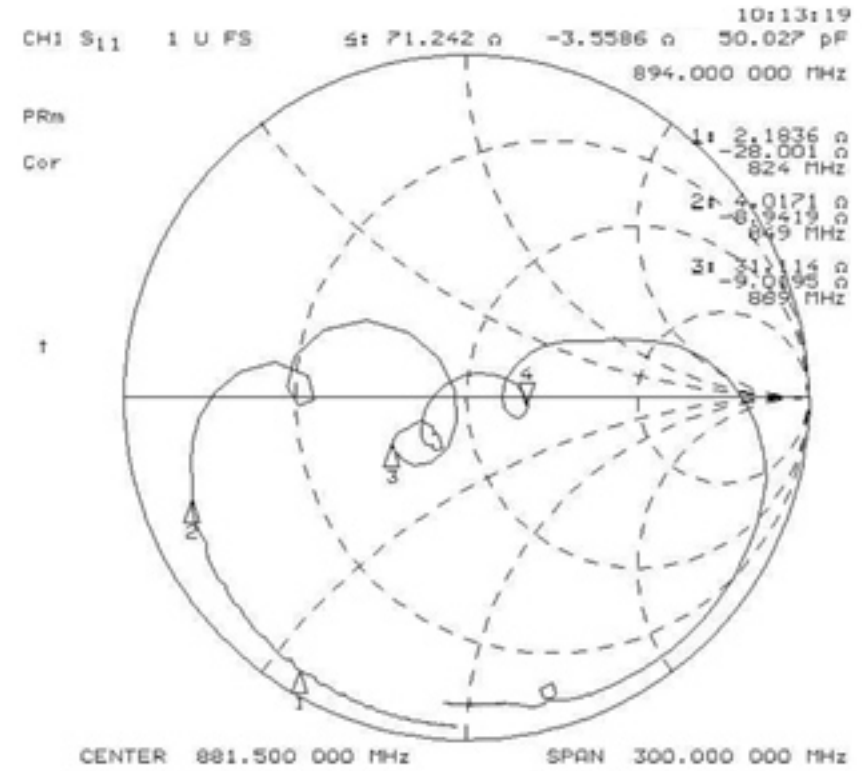
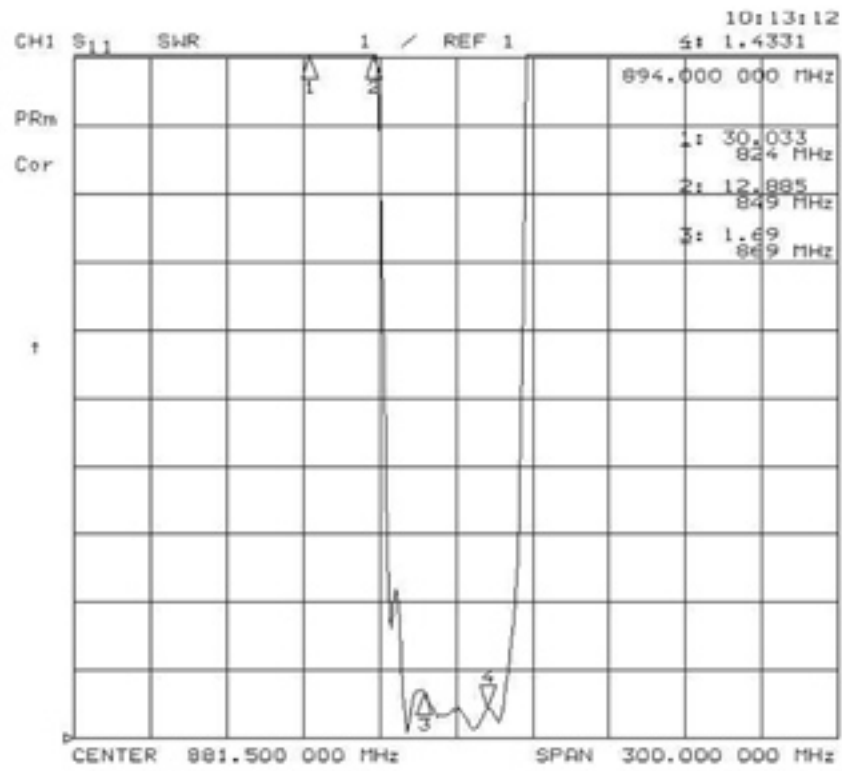


C. Frequency Characteristics :

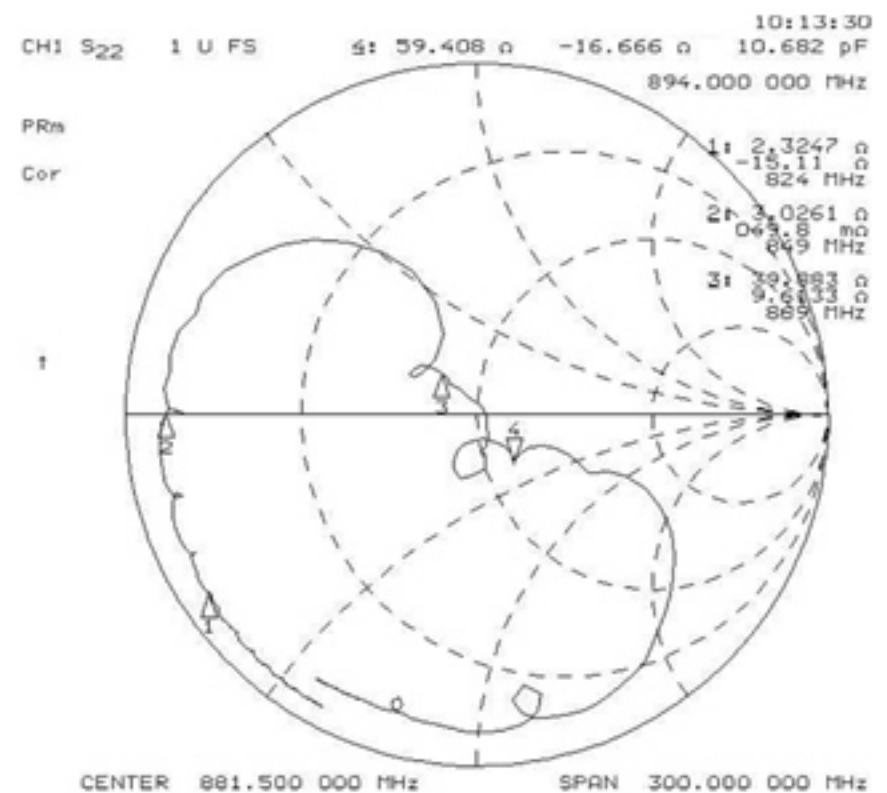
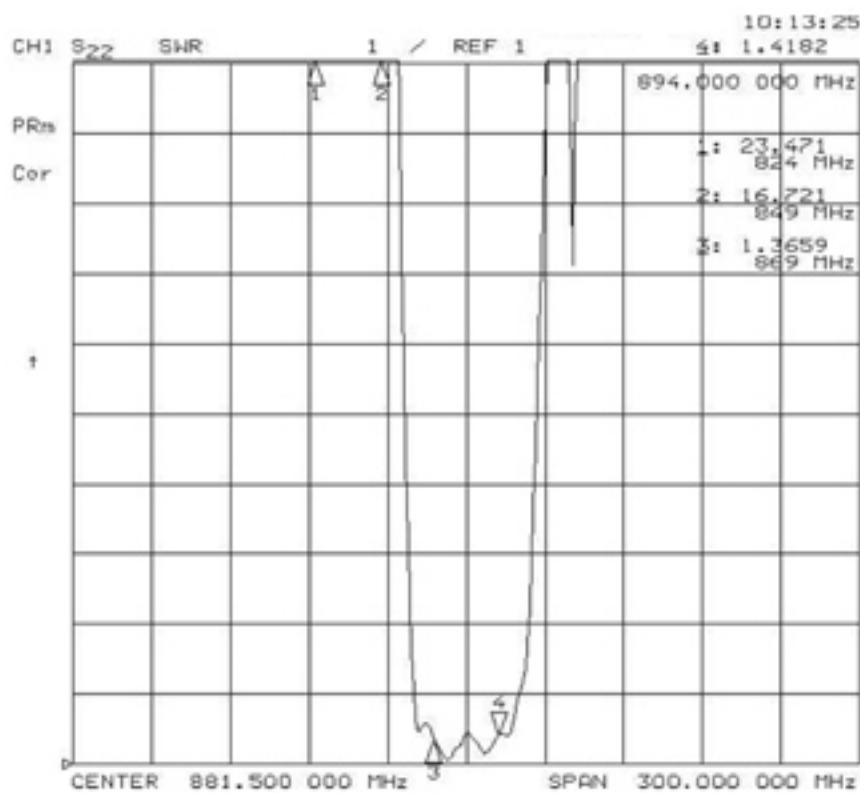


D. Reflections Functions :

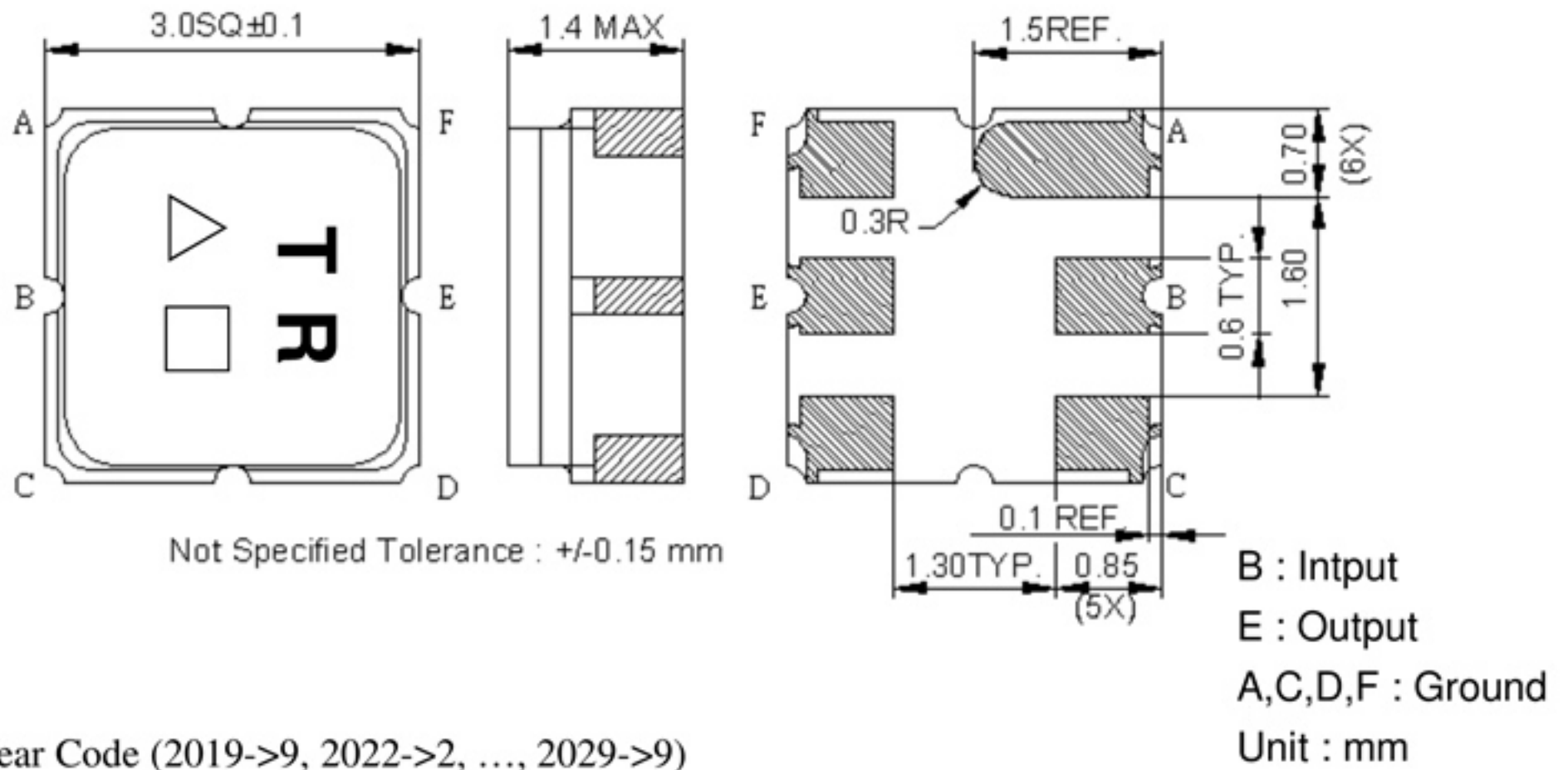
S11 VSWR



S22 VSWR



E. OUTLINE DRAWING:



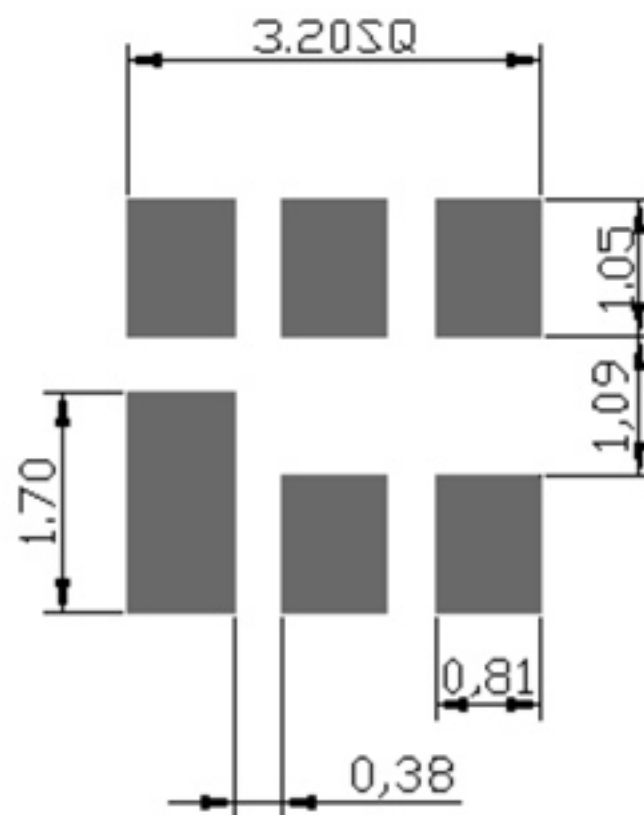
△ : Year Code (2019->9, 2022->2, ..., 2029->9)

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

Date Code Table

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

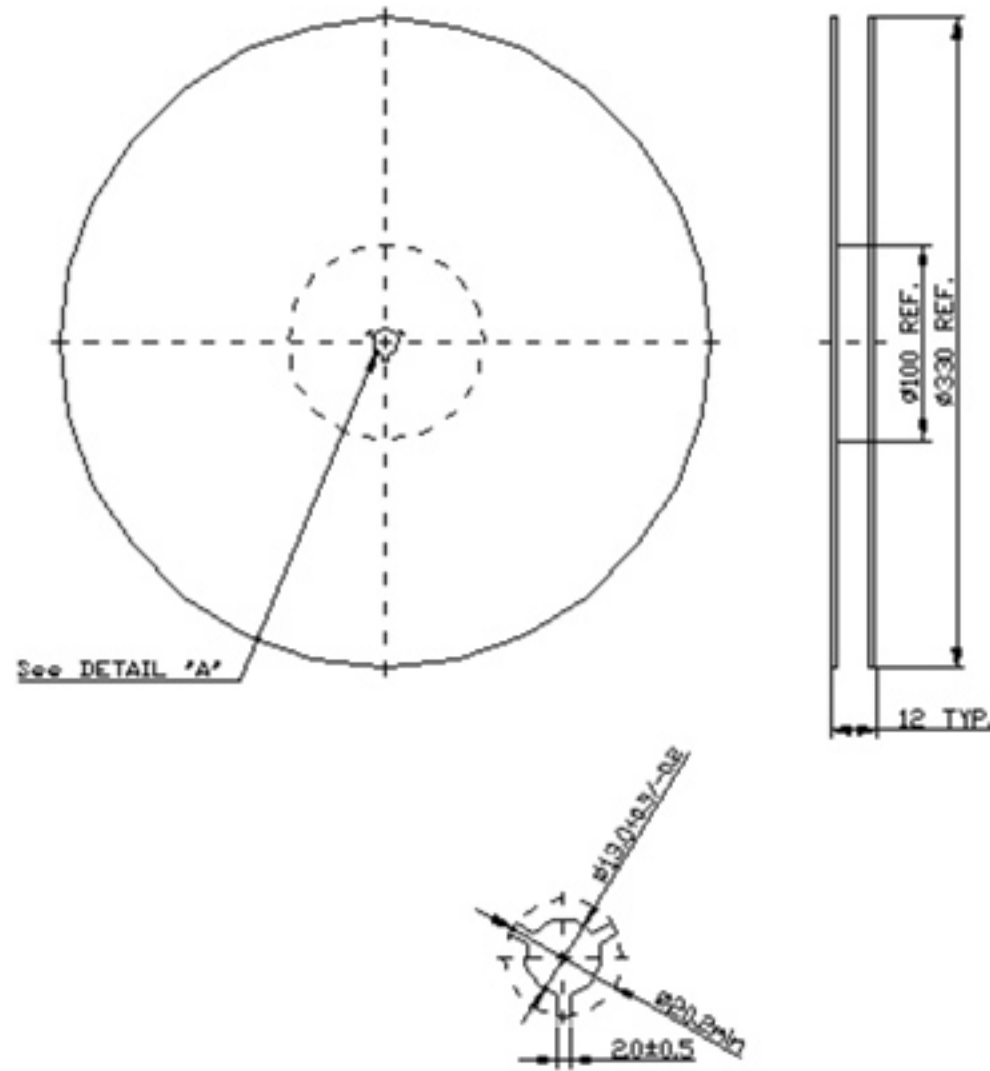
F. LAND PATTERN:



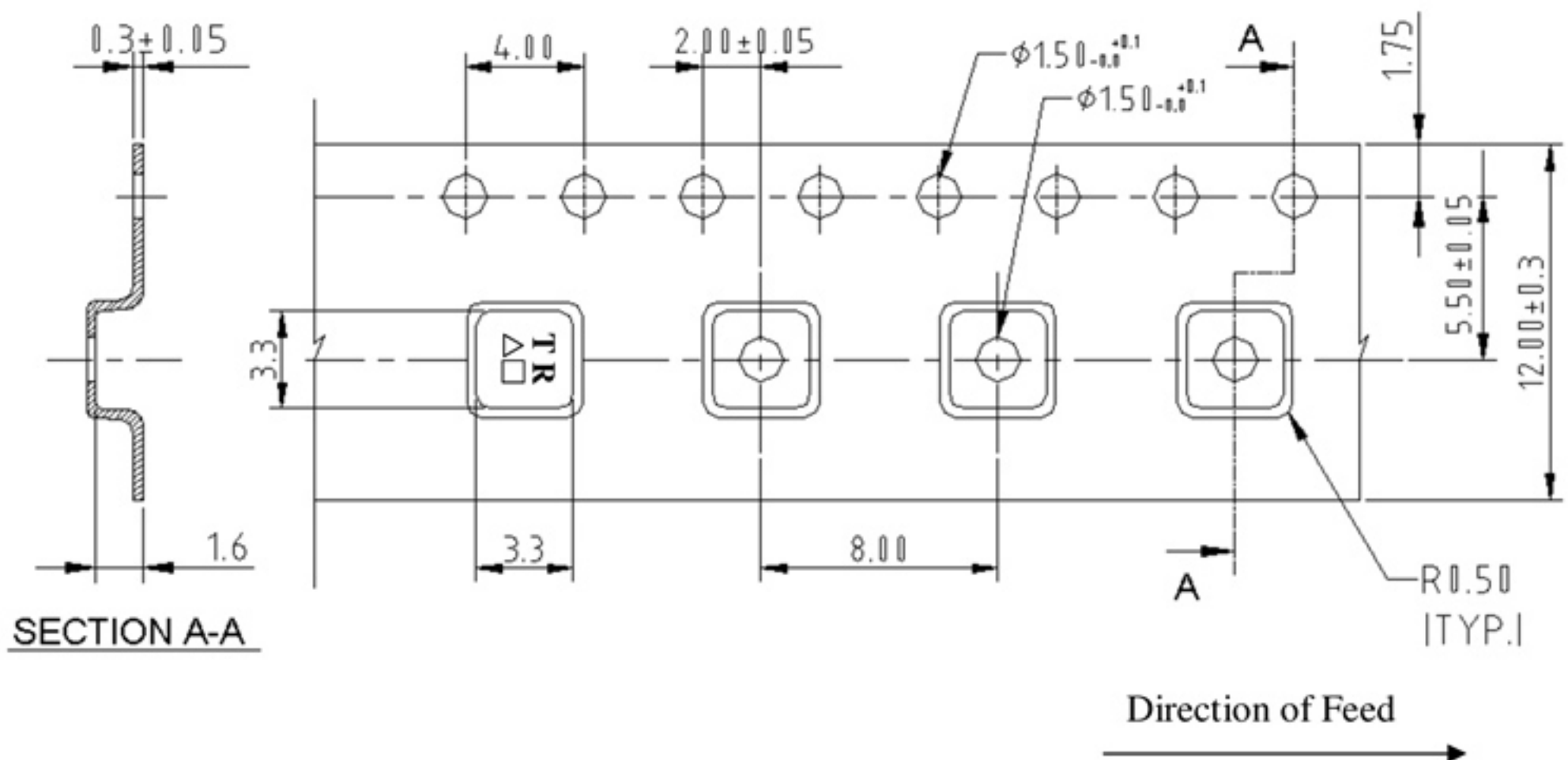
G. PACKING:

1. REEL DIMENSION

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



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.

