



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Approval Sheet For Product Specification

Issued Date: Jul, 19, 2007

Product Name: SAW Filter 2442 MHz SMD 3X3 mm

TST Parts No.:TA0222A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau

Approval by:_____ Francis Chen

Date:_____ 7, 19, 2007



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SAW Filter 2442 MHz

MODEL NO.: TA0222A

REV. NO.:3

A. MAXIMUM RATING:

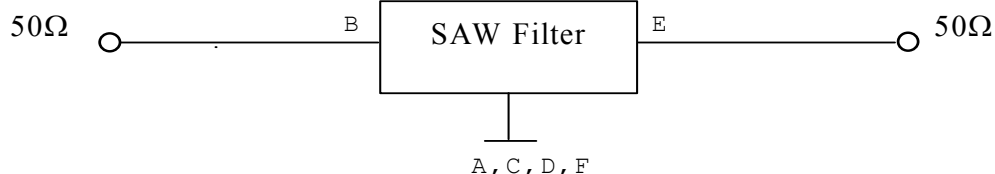
1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

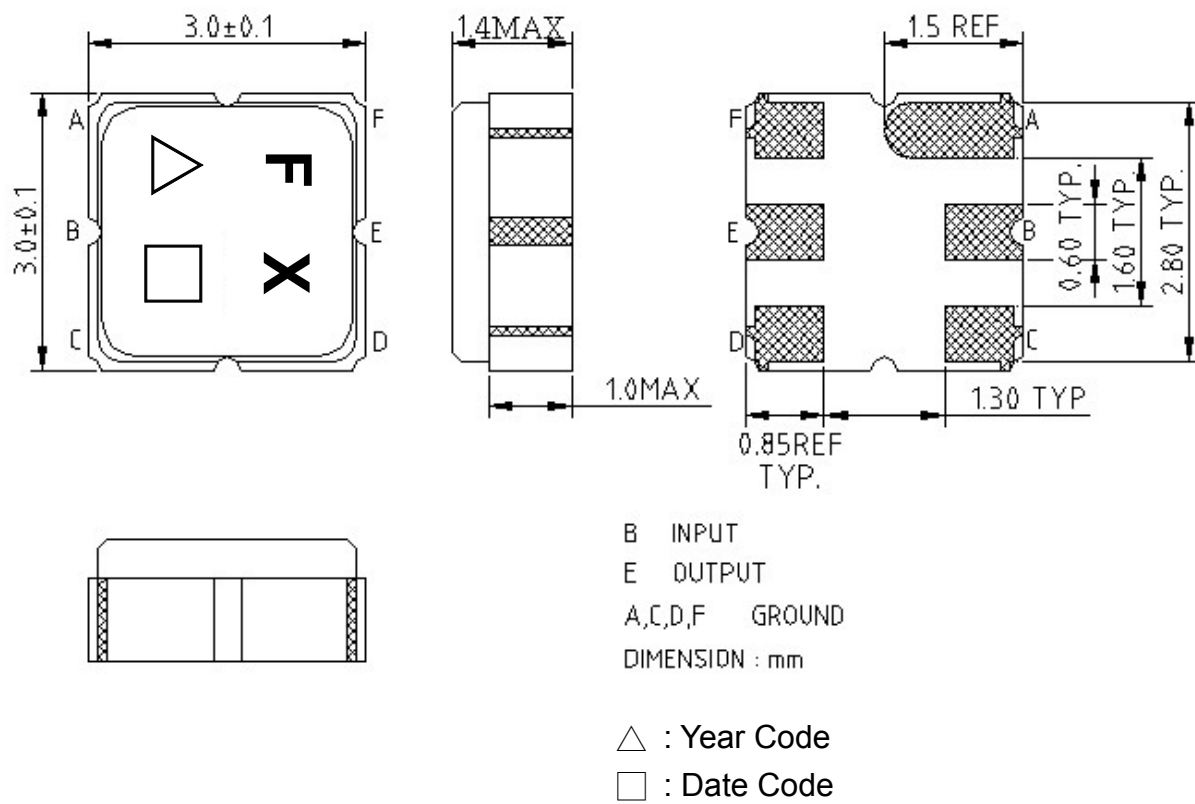
Item		Min.	Typ.	Max.
Center frequency	Fr (MHz)	2437	2442	2447
Minimum Insertion loss (2437~2447 MHz)	IL _{min} (dB)	-	1.9	6.0
Pass Bandwidth (relative to IL _{min})	BW ₃ (MHz)	55	78	-
Amplitude ripple (Fr +/- 12.5 MHz)	(dB)	-	0.6	2.0
Group Delay Ripple (Fr +/- 12.5 MHz)	(ns)	-	5	20
Group Delay (Fr +/- 12.5 MHz)	(ns)	-	14	50
Attenuation (Reference level from 0 dB)				
D.C. ~ 2300 MHz	(dB)	37.0	41.0	-
2300 ~ 2367 MHz	(dB)	20.0	31.0	-
2517 ~ 2650 MHz	(dB)	40.0	44.0	-
2650 ~ 4000 MHz	(dB)	25.0	31.0	-
VSWR (Fr +/- 12.5 MHz)		-	1.6	2.5
Source impedance	Zs (Ω)	-	50	-
Load impedance	ZL (Ω)	-	50	-

C. MEASUREMENT CIRCUIT:

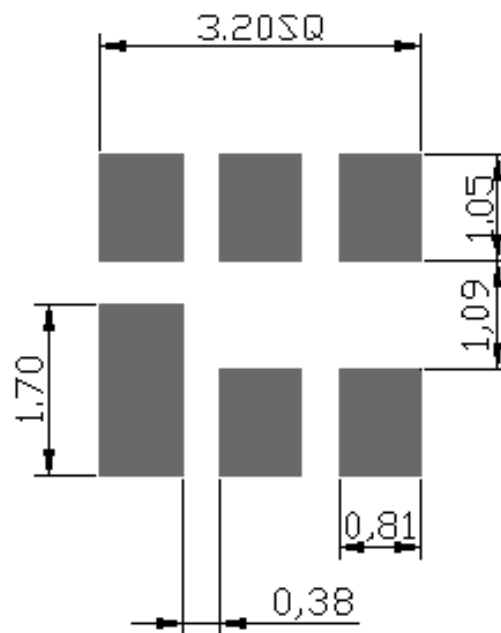
HP Network analyzer



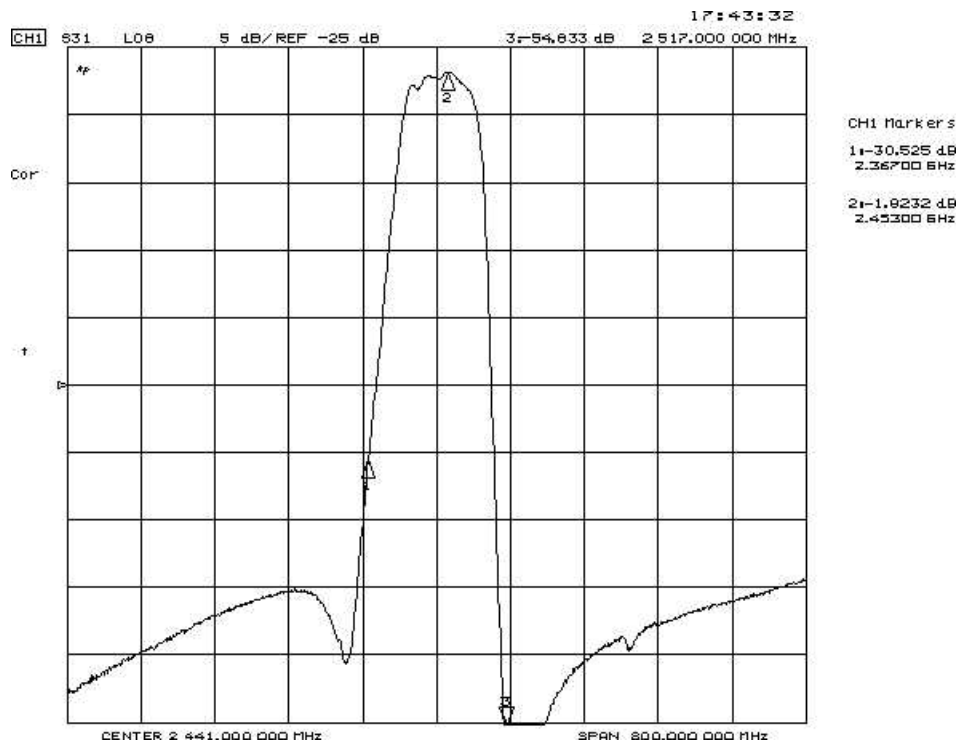
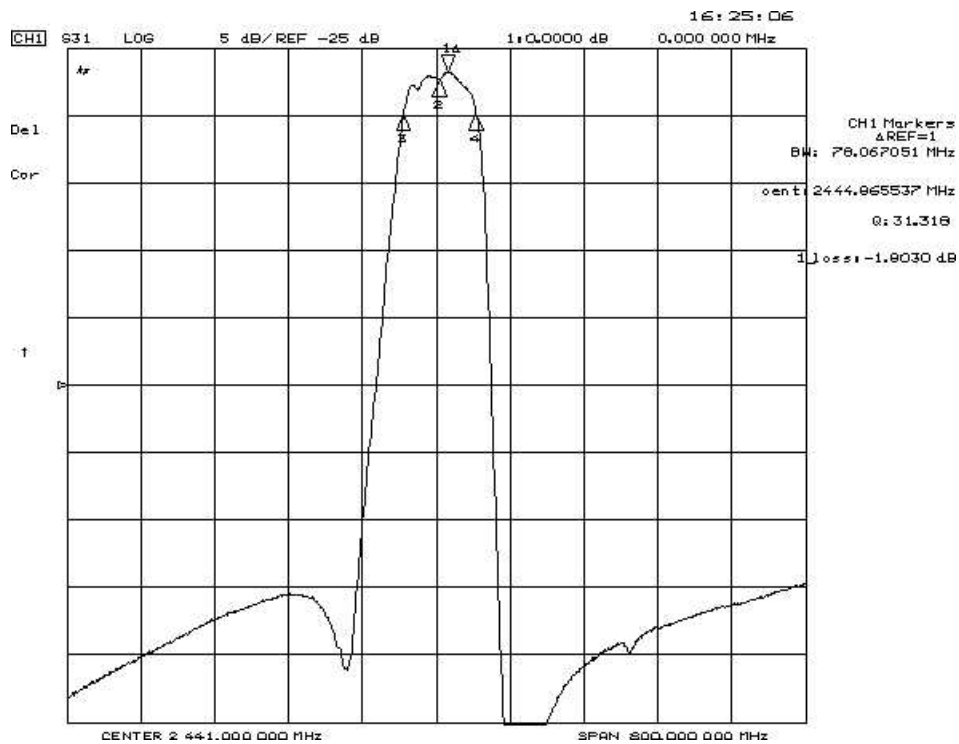
D. OUTLINE DRAWING:

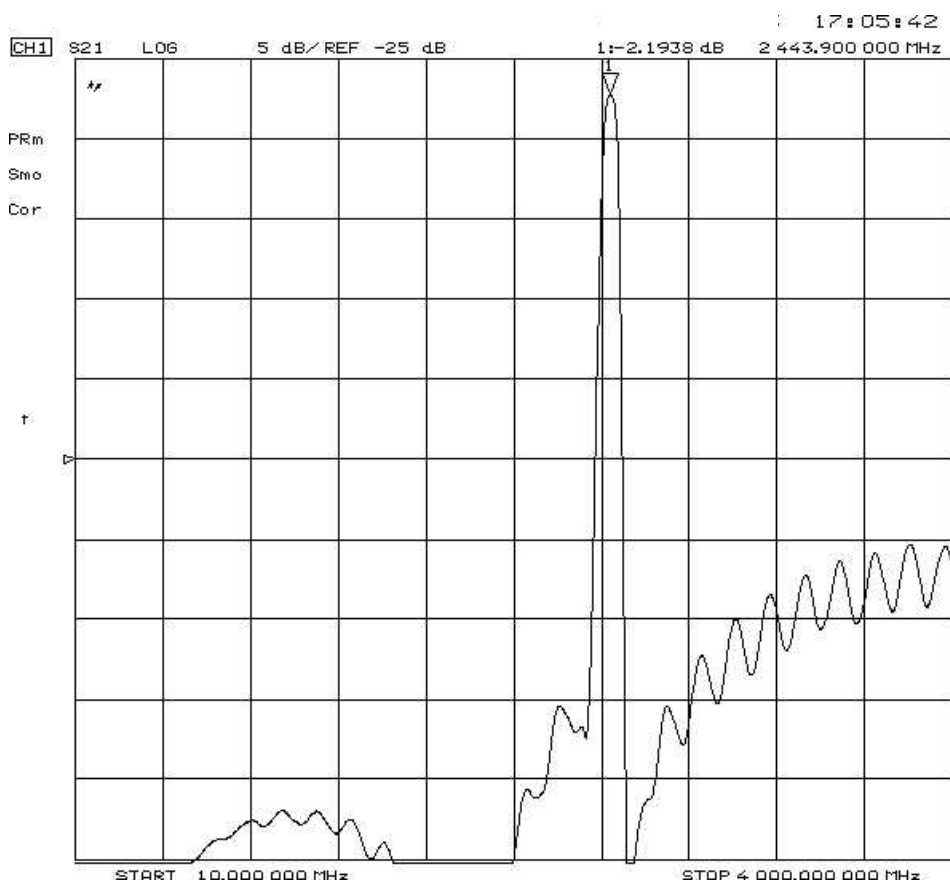
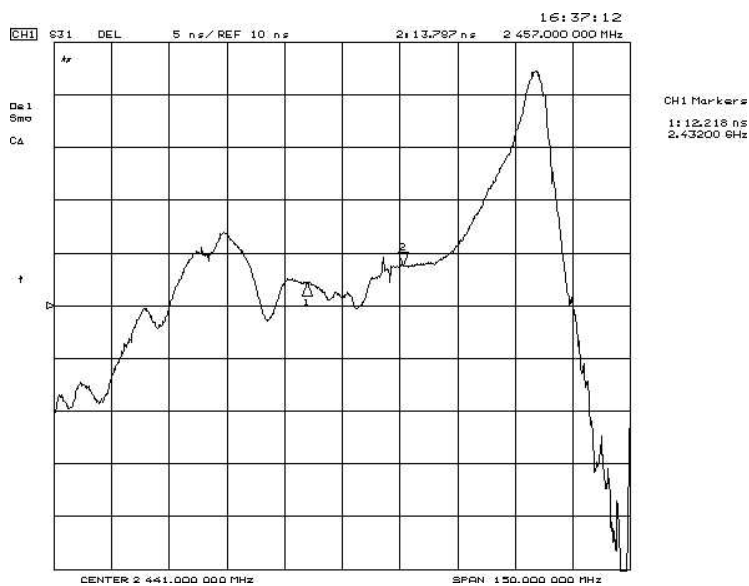
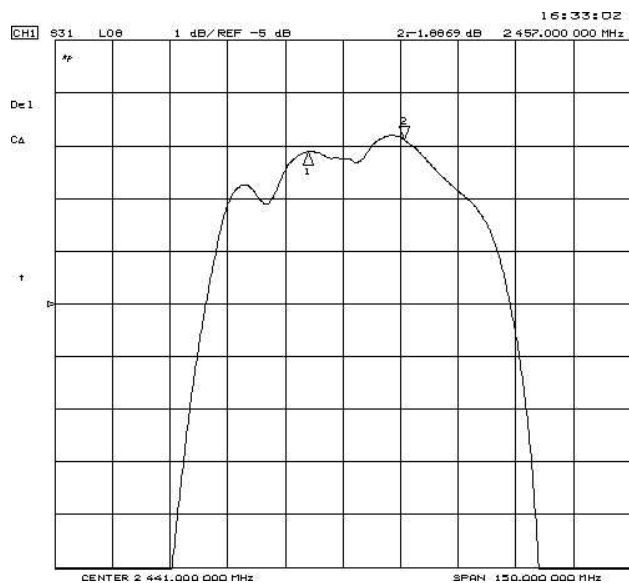


E. PCB Footprint:



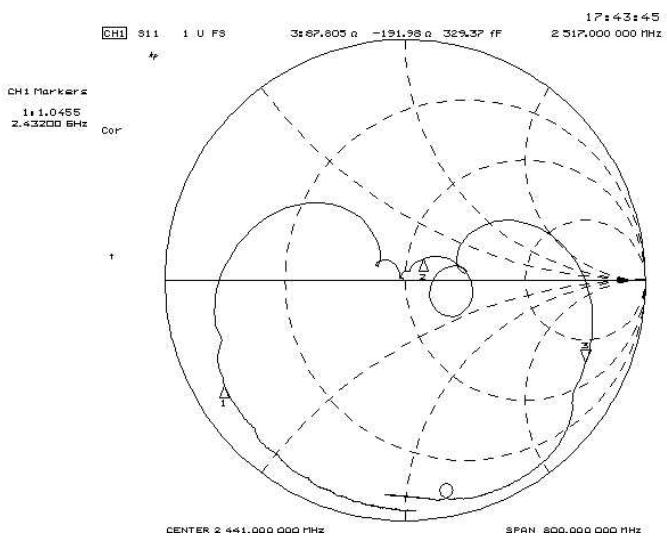
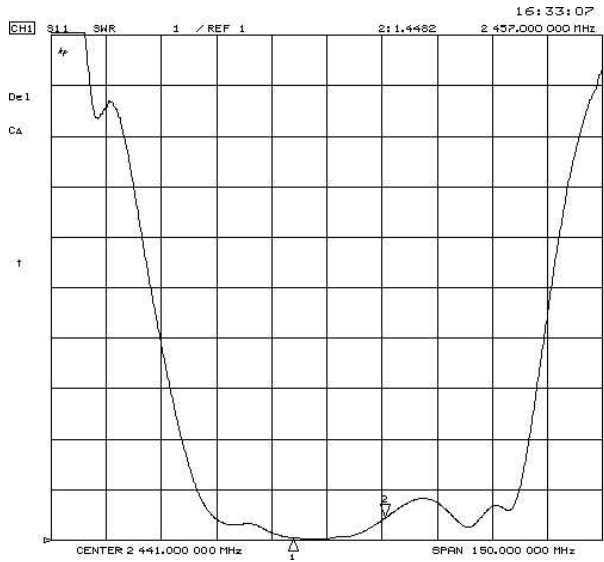
F. Frequency Characteristics : Transfer function





Reflections Functions :

S11 VSWR

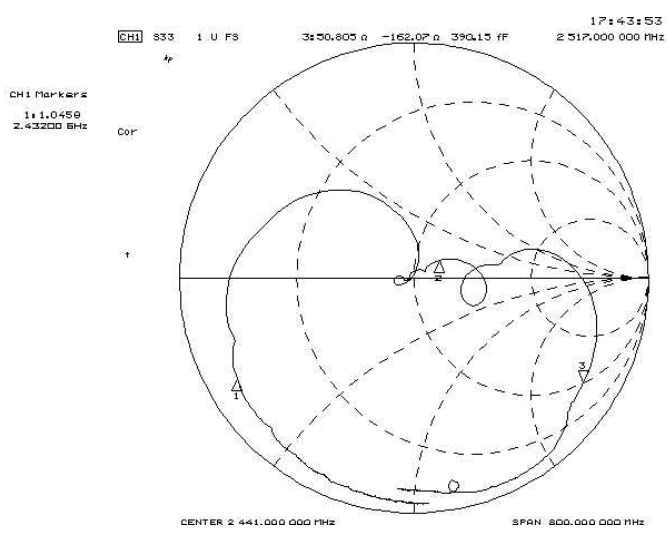
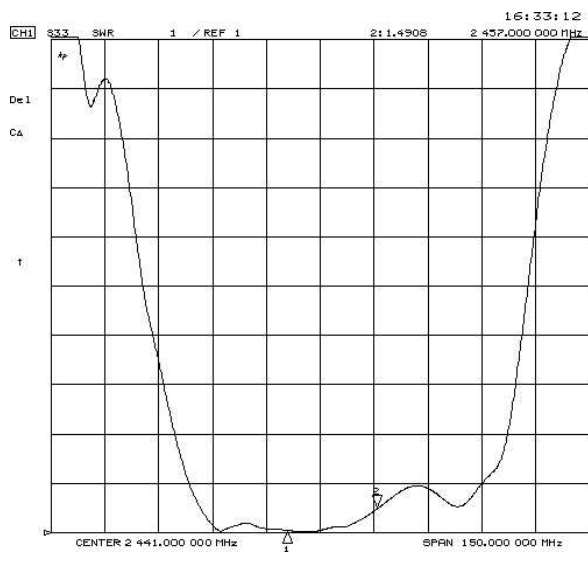


CH1 Markers

1: 3.7559 a
-13.361 a
2.36700 GHz

2: 67.404 a
10.383 a
2.45300 GHz

S22 VSWR



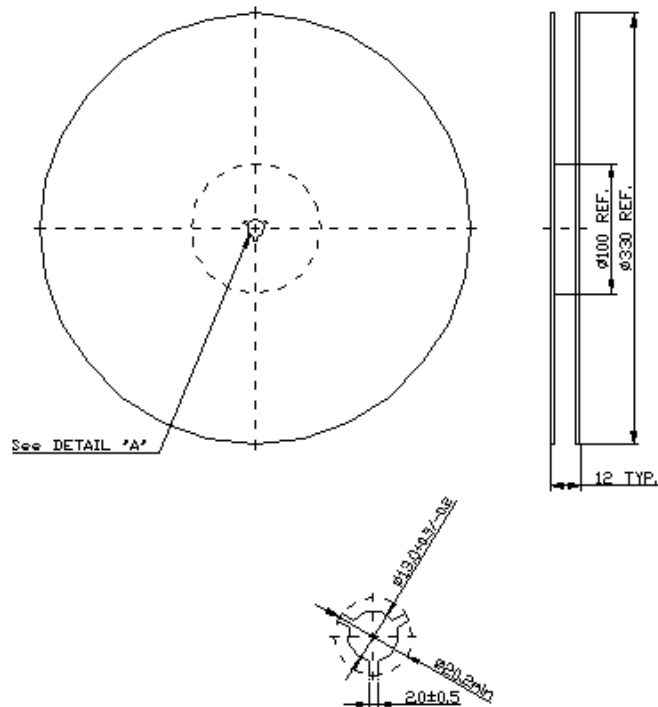
CH1 Markers

1: 3.7066 a
-13.088 a
2.36700 GHz

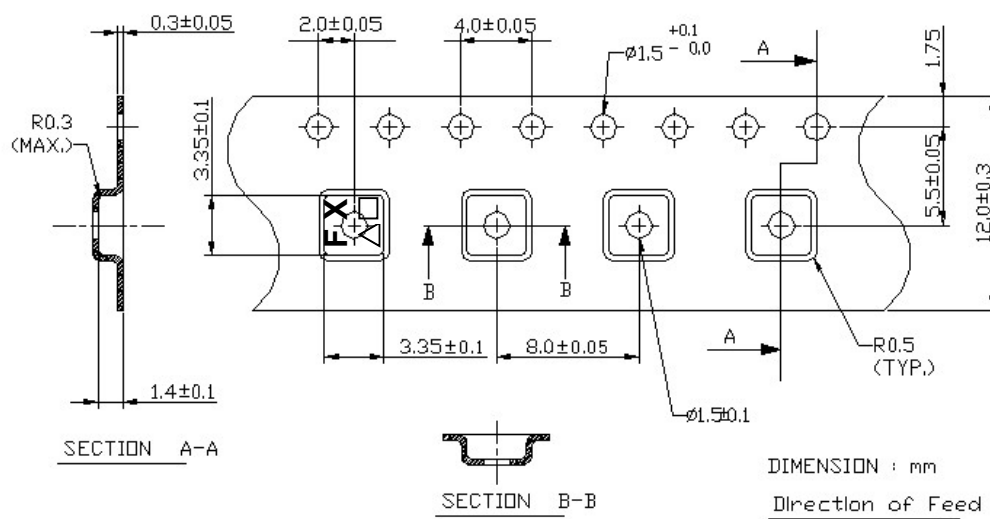
2: 61.475 a
9.2988 a
2.45300 GHz

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

