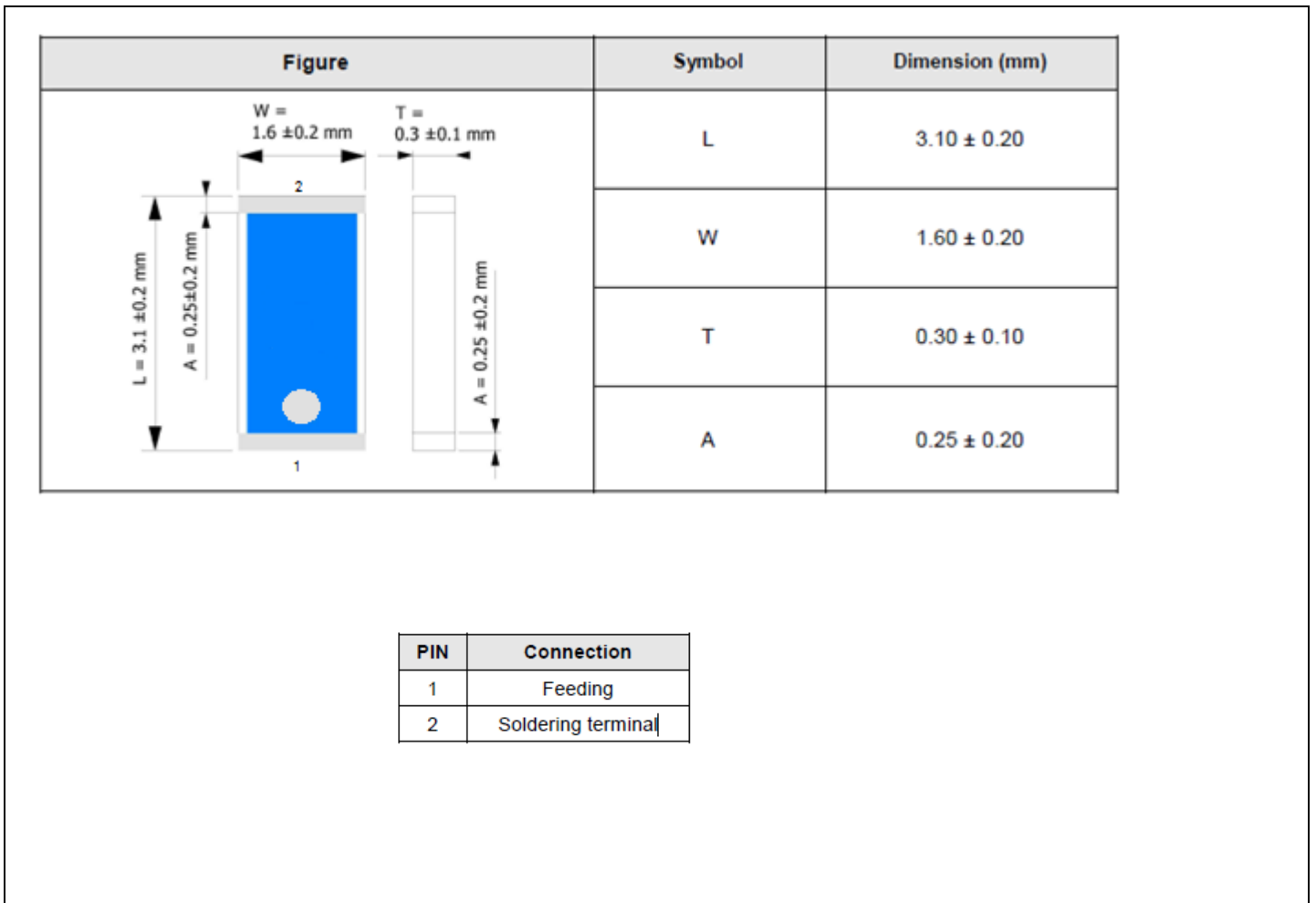


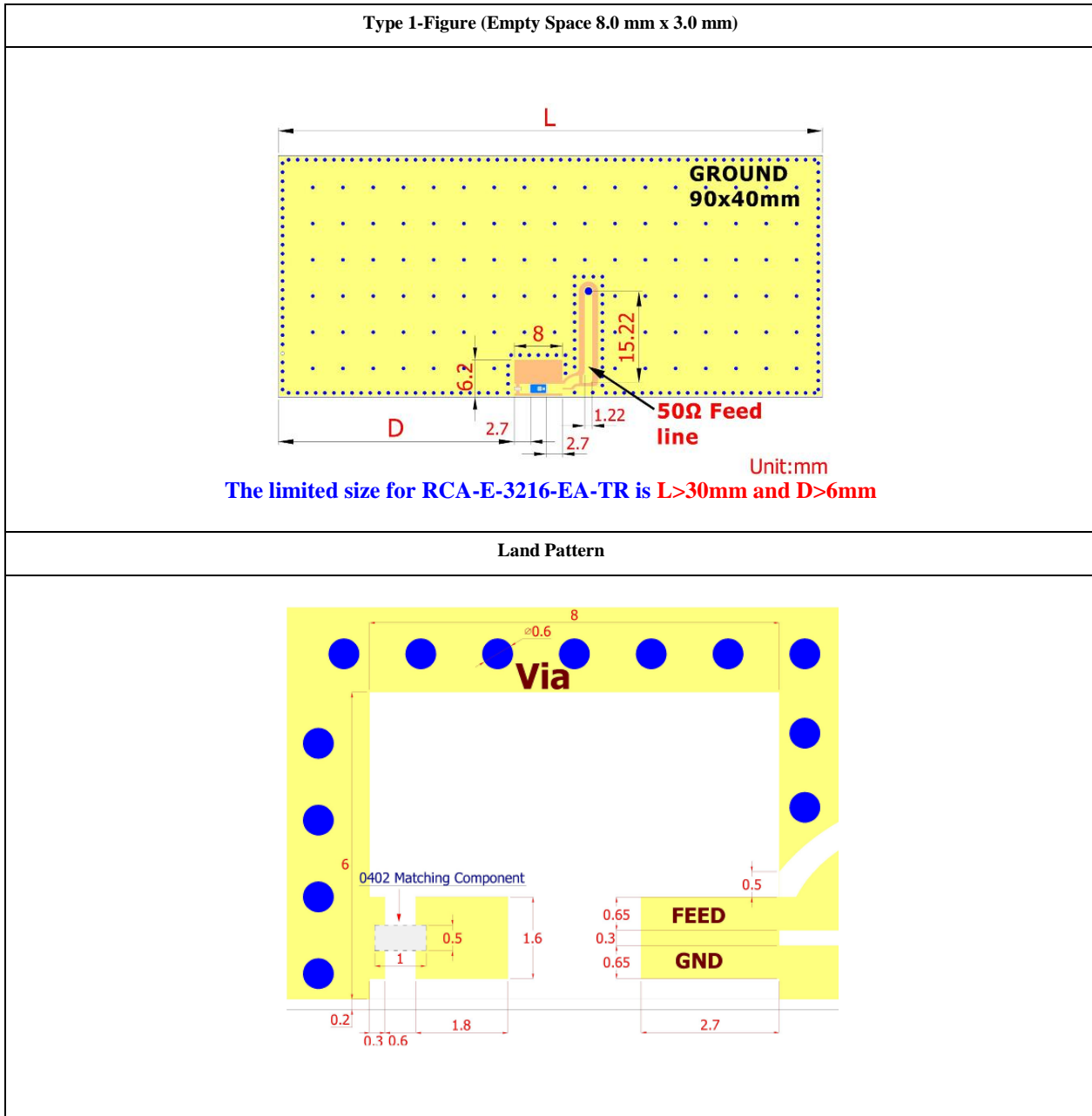
#### ELECTRICAL SPECIFICATION

SPECIFICATIONS	SPECIFICATIONS	UNIT
Frequency Range	1.575	GHz
Azimuth Bandwidth	Omni-directional	--
Gain, typ	3	dBi
VSWR ,max	2.0	--
Impedance	50	$\Omega$
Polarization	Linear	--

#### MECHANICAL SPECIFICATION



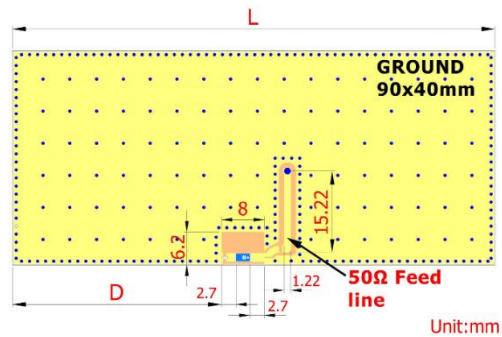
■ SOLDER PATTERN DESIGN



Flexible Empty Space

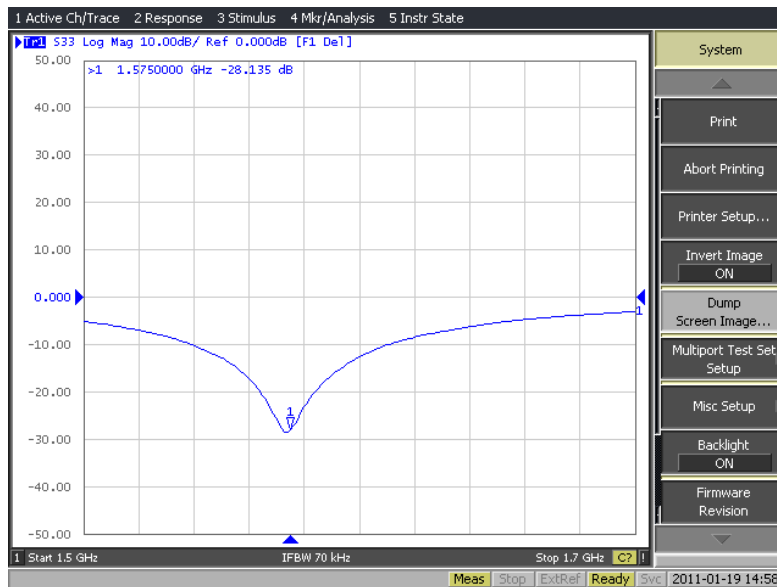
Empty Space Options		
Empty Space	Radiation Efficiency (%)	Bandwidth (MHz)
8mm x 6mm	72 (Typical)	30
8mm x 4mm	61 (Typical)	20
8mm x 3mm	55 (Typical)	18

■ ANTENNA ON TEST BOARD (thickness 0.8mm)

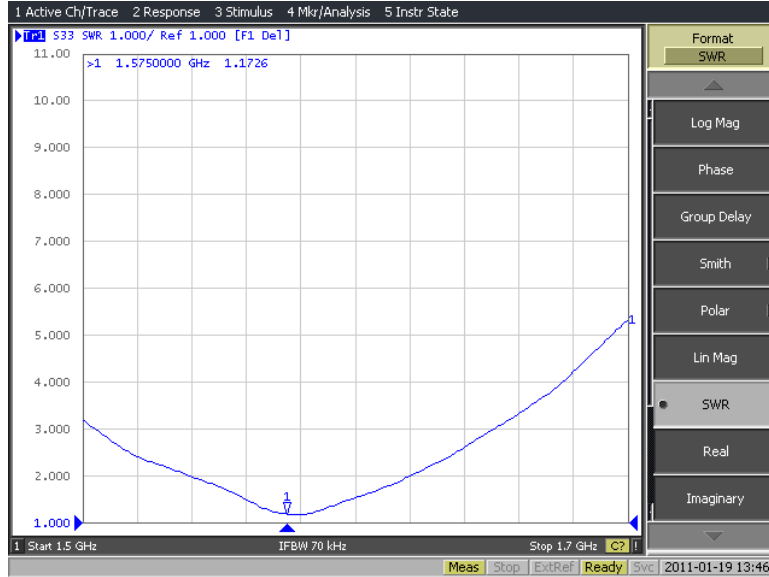


#### FREQUENCY CHARACTERISTICS

S11

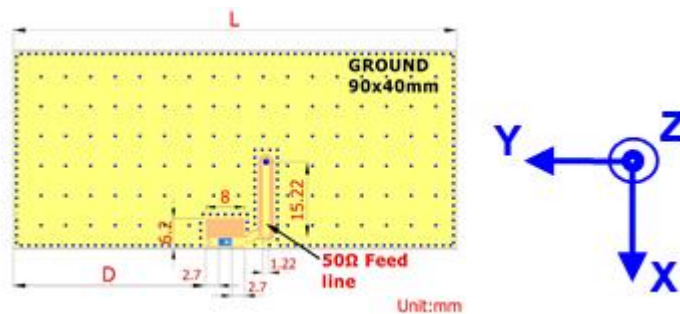


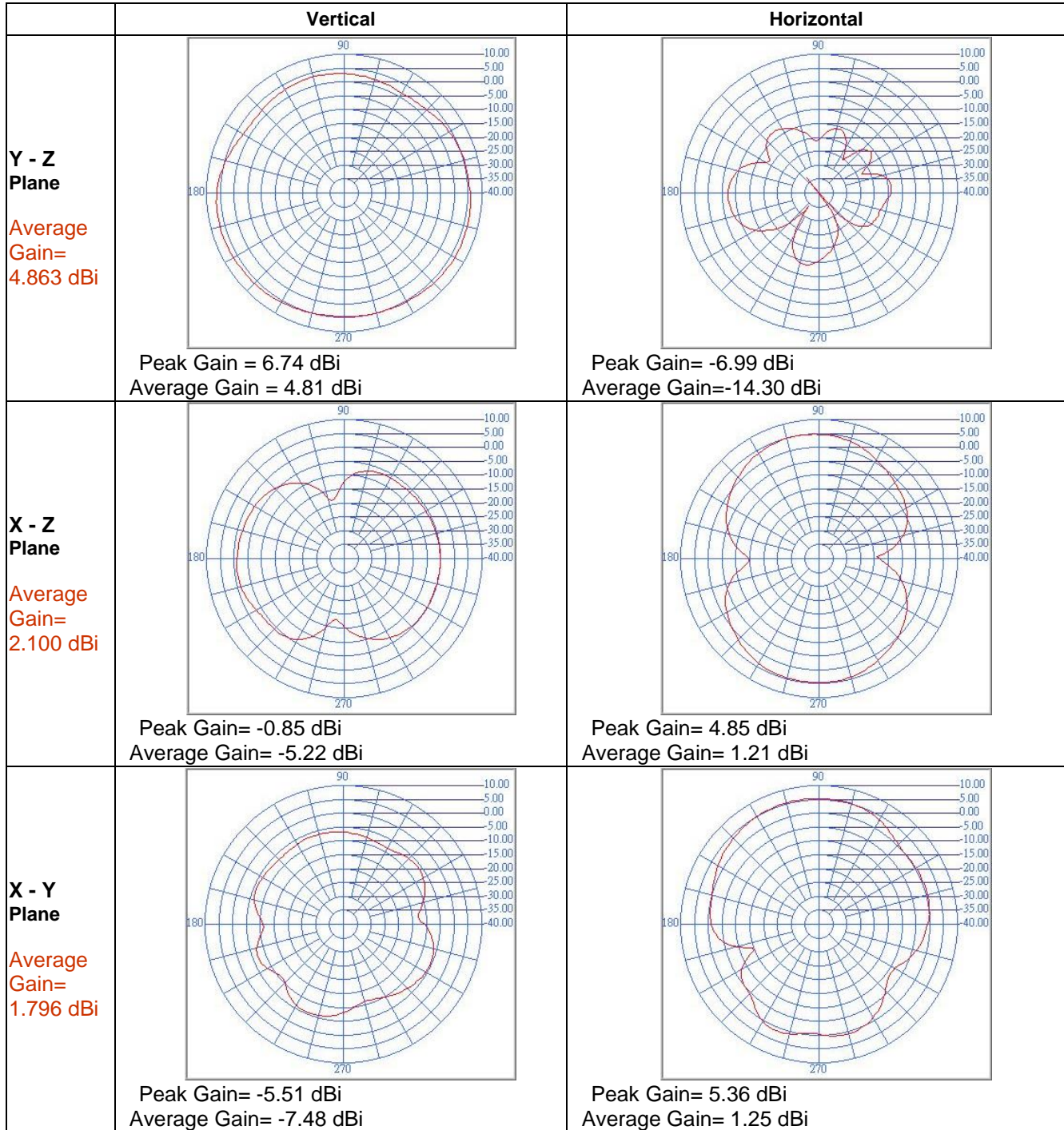
### VSWR



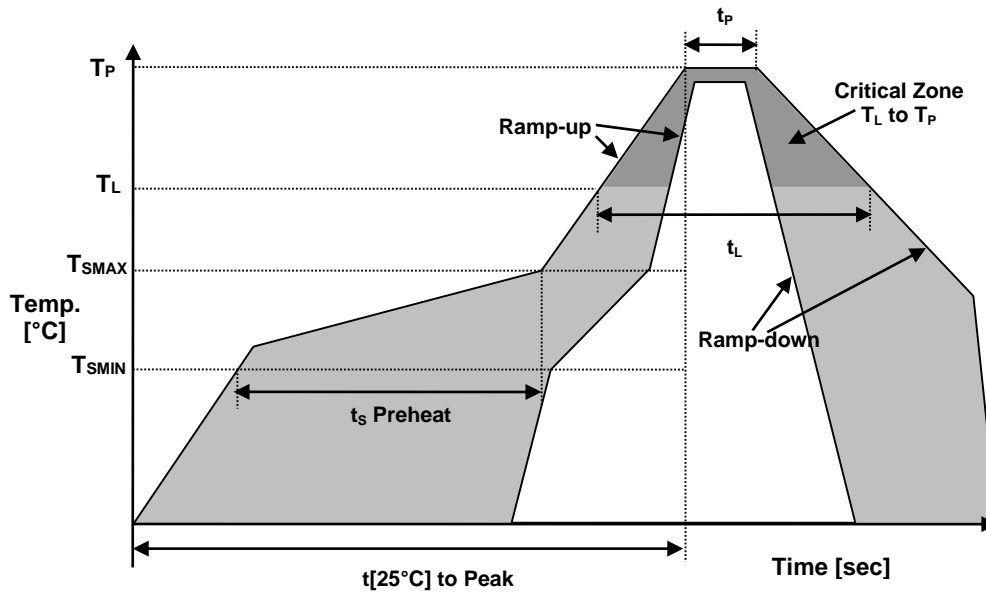
### RADIATION PATTERN

Radiation Pattern and Gain are dependent of the measurement board design. The actual specifications were measured on the PCB size and position as shown in the picture below





### REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	150°C
Temperature Max Preheat	$T_{SMAX}$	200°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	60-180 sec.
Temperature	$T_L$	217°C
Peak Temperature	$T_P$	260°C
Ramp-up rate	$R_{UP}$	3°C/sec max.
Ramp-down rate	$R_{DOWN}$	6°C/sec max.
Time within 5°C of Peak Temperature	$t_p$	10 sec.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	$t_L$	60-150 sec.

### ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS2	6/6 COMPLIANT & LEAD FREE
REACH-SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au



May, 2016