

# Part No. 1004795 / 1004796

## Universal Broadband FR4 Embedded LTE / LPWA Antenna

315 MHz / 400 MHz / 433 MHz / 450 MHz / 600 – 960 MHz / 1710 - 2690 MHz

Supports: Broadband LTE (OCTA-BAND), LTE CAT-M, NB-IoT, LoRa, Cellular LPWA, RPMA, ISM, 400MHz Satellite



\*Mirrored version offered as 1004796

### Universal Broadband FR4 Embedded LTE Antenna

Low Band: 698 – 1000 MHz  
 High Band: 1700 - 2400 MHz  
 Band 7: 2500 - 2700 MHz  
 Appendix 1: 315, 400, 433, 450 MHz  
 Appendix 2: 600-960 / 1710 - 2700 MHz

#### KEY BENEFITS

##### Reduced Costs and Time-to-Market

Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

##### Greater Flexibility with Unique Form Factors

KYOCERA AVX' technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.

##### Environmental Compliance

Comply with latest RoHS requirements

#### APPLICATIONS

- Medical applications
- Smart metering
- M2M, Industrial devices
- IoT
- Firstnet
- Point of Sale
- Tracking
- Satellite Communications

KYOCERA AVX' Universal Broadband Embedded LTE/LPWA antennas utilize IMD technology, which offers a reduced electrical footprint on any circuit board and independent tuning capabilities for performance optimization. This low profile FR4 antenna encapsulates IMD's high performance and isolation characteristics offering better connectivity and minimal interference

#### High Performance LTE in Small form factor

The 1004795/1004796 LTE antenna is designed to support CAT-M and NB-IoT applications, supporting all US and Worldwide major carriers. In addition, the versatility to return to other frequency bands, allows this antenna to perform and 315MHz for RKE applications, 450MHz for the LTE band B31, 433MHz ISM bands as well as 400MHz satellite applications. This antenna is the perfect solution for IoT enabled devices, offering high efficiency and peak gain in a small form factor, and with a reduced ground plane size requirement.

#### Electrical Specifications

Typical 1004795 performance 125 x 45 mm PCB

Frequency (MHz)	315,400, 433,450	600-698	698-960	1710-2400	2500-2700
Peak Gain	Refer to Appendix 1	Refer to Appendix 2	1.6 dBi	3.1 dBi	1.7 dBi
Average Efficiency			64%	55%	53%
VSWR Match			< 2.5:1		< 3.0:1
Polarization	Linear				
Power Handling	2 Watt CW				
Feed Point Impedance	50 Ω unbalanced				

#### Mechanical Specifications & Ordering Part Number

Ordering Part #	1004795	1004796
Dimensions (mm)	36.0 x 9.0 x 3.2	36.0 x 9.0 x 3.2
Mounting Type	SMT (P&P)	
Variant	1004796: Mirrored version of 1004795	
Weight (grams)	2.1	
Packaging	Tape and Reel	
Storage Temperature/ Humidity (Sealed shipping package)	+5°C to +35°C 45~75%	
Operating Temperature	-40 to +85 C	
Demo Board	1004795-01 (1004795) 1004796-01 (1004796)	

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

LTE Bands covered by (1004795/1004796)

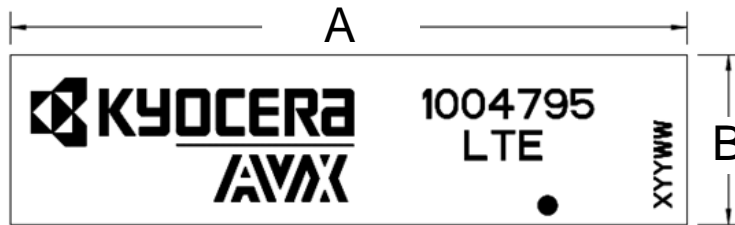
LTE Band	Frequency Band (MHz)	Uplink (UL) (MHz)	Downlink (DL) (MHz)	Region	Covered
1	2100	1920 - 1980	2110 - 2170	Global	Yes
2	1900	1850 - 1910	1930 - 1990	NAM	
3	1800	1710 - 1785	1805 - 1880	Global	
4	1700	1710 - 1755	2110 - 2155	NAM	
5	850	824 - 849	869 - 894	NAM	
6	850	830 - 840	875 - 885	APAC	
7	2600	2500 - 2570	2620 - 2690	EMEA	
8	900	880 - 915	925 - 960	Global	
9	1800	1749.9 - 1784.9	1844.9 - 1879.9	APAC	
10	1700	1710 - 1770	2110 - 2170	NAM	
11	1500	1427.9 - 1447.9	1475.9 - 1495.9	Japan	No
12	700	699 - 716	729 - 746	NAM	Yes
13	700	777 - 787	746 - 756	NAM	
14	700	788 - 798	758 - 768	NAM	
17	700	704 - 716	734 - 746	NAM	
18	850	815 - 830	860 - 875	Japan	
19	850	830 - 845	875 - 890	Japan	
20	800	832 - 862	791 - 821	EMEA	
21	1500	1447.9 - 1462.9	1495.9 - 1510.9	Japan	No
22	3500	3410 - 3490	3510 - 3590	EMEA	Yes
23	2000	2000 - 2020	2180 - 2200	NAM	No
24	1600	1626.5 - 1660.5	1525 - 1559	NAM	Yes
25	1900	1850 - 1915	1930 - 1995	NAM	
26	850	814 - 849	859 - 894	NAM	
27	850	807 - 824	852 - 869	NAM	
28	700	703 - 748	758 - 803	APAC,EU	
29	700	N/A	717 - 728	NAM	
30	2300	2305 - 23151	2350 - 2360	NAM	
31	450	452.5 - 457.5	462.5 - 467.5	Global	No
32	1500	N/A	1452 - 1496	EMEA	
33	1900		1900 - 1920		Yes
34	2000		2010 - 2025		
35	1850		1850 - 1910		
36	1900		1930 - 1990		
37	1900		1910 - 1930		
38	2600		2570 - 2620		
39	1900		1880 - 1920		
40	2300		2300 - 2400		
41	2500		2496 - 2690		
42	3500		3400 - 3600		
43	3700		3600 - 3800		

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Antenna Dimensions (1004795)**

Typical antenna dimensions (mm)

Part Number	A	B	C
1004795	36.0 ± 0.2	9.0 ± 0.2	3.2 ± 0.33

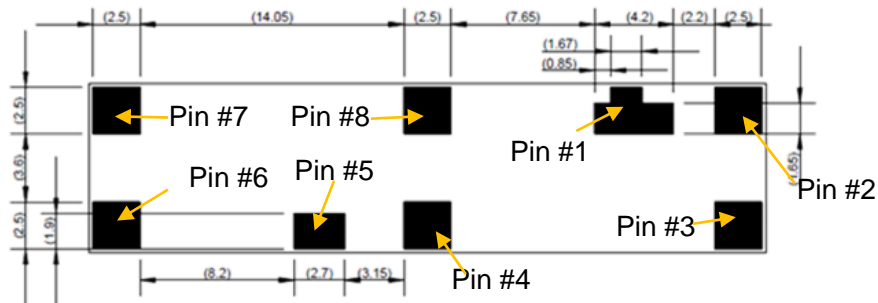


**Top View**

Pin#	Description
1	Feed
2	Antenna Tuning
3	Dummy Pad
4	Dummy Pad
5	Antenna Tuning
6	Dummy Pad
7	Dummy Pad
8	Dummy Pad



**Front View/Height**



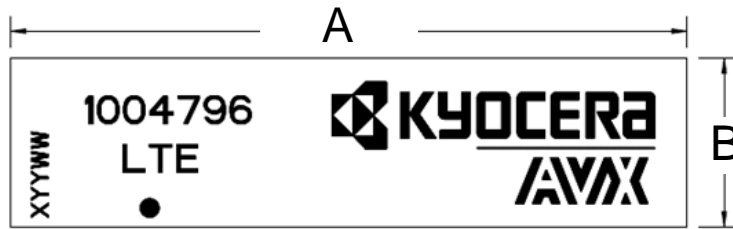
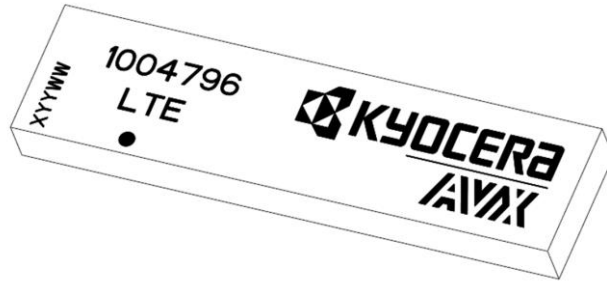
**Bottom View**

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Antenna Dimensions (1004796)**

Typical antenna dimensions (mm)

Part Number	A	B	C
1004796	36.0 ± 0.2	9.0 ± 0.2	3.2 ± 0.33

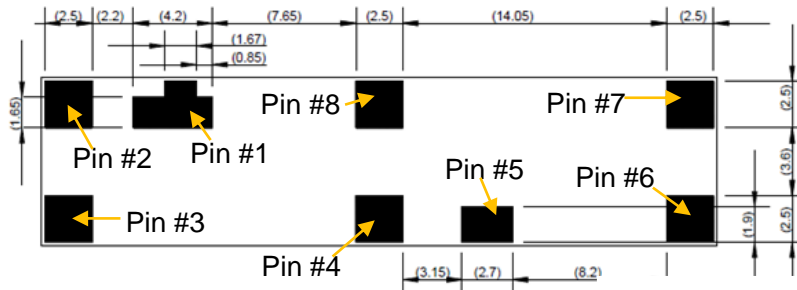


**Top View**



**Front View/Height**

Pin#	Description
1	Feed
2	Antenna Tuning
3	Dummy Pad
4	Dummy Pad
5	Antenna Tuning
6	Dummy Pad
7	Dummy Pad
8	Dummy Pad



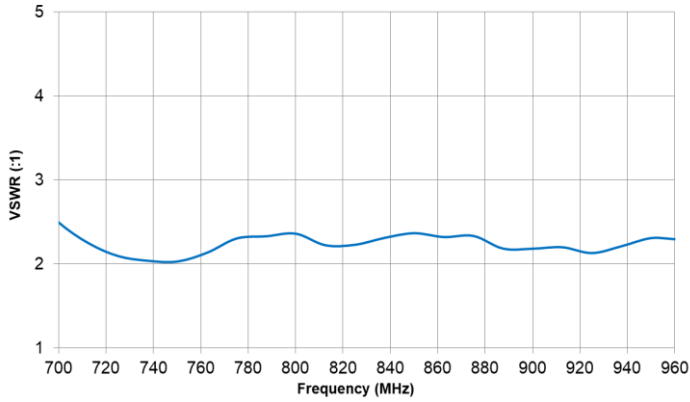
**Bottom View**

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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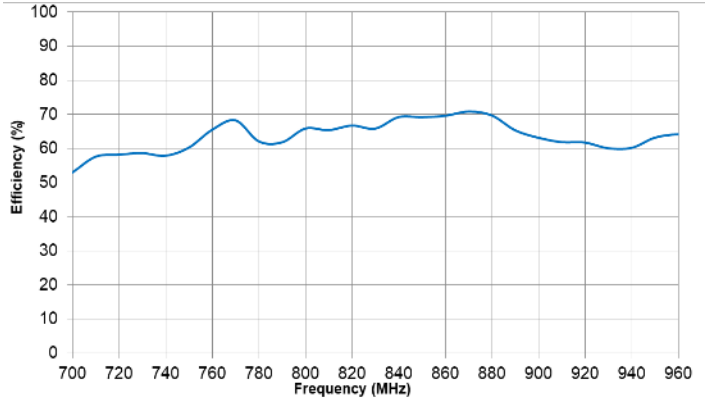
### VSWR and Efficiency Plots

Typical 1004795/1004796 performance 125 x 45 mm PCB

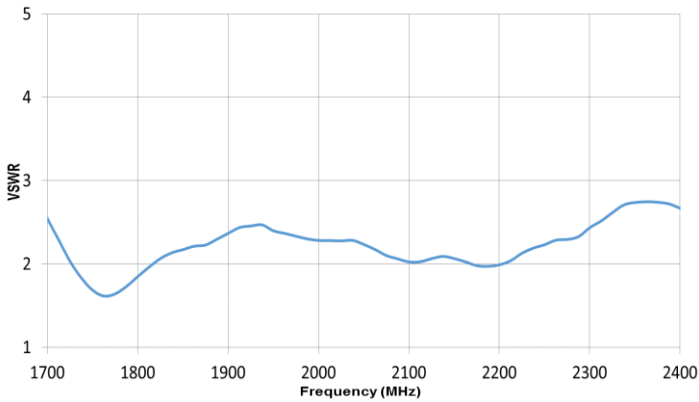
**Low Band VSWR**



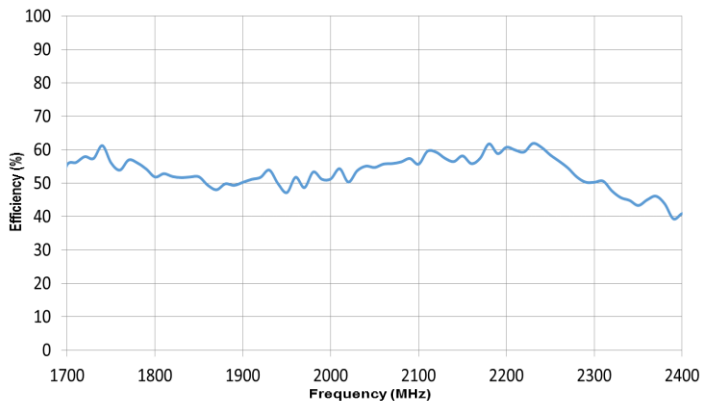
**Low Band Efficiency**



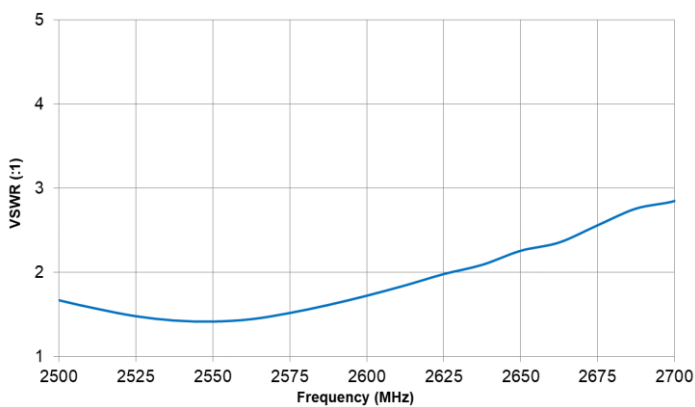
**High Band VSWR**



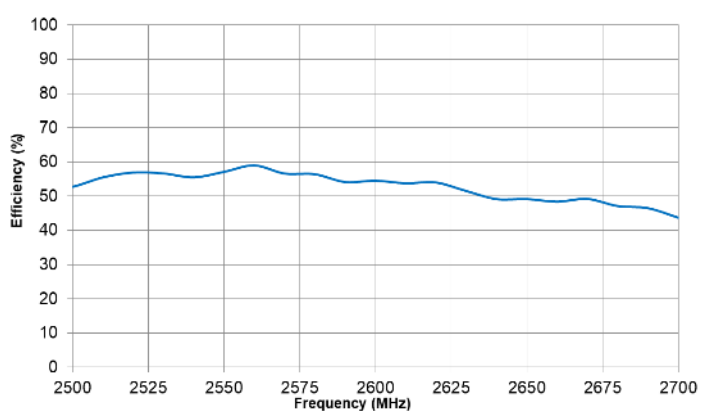
**High Band Efficiency**



**Band 7 VSWR**



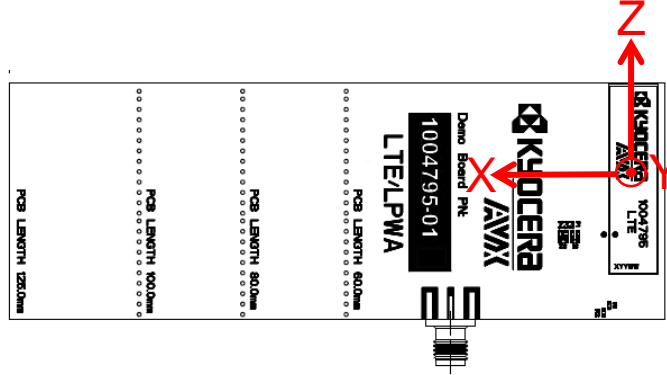
**Band 7 Efficiency**



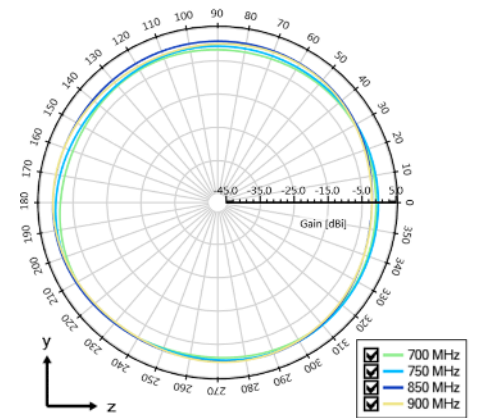
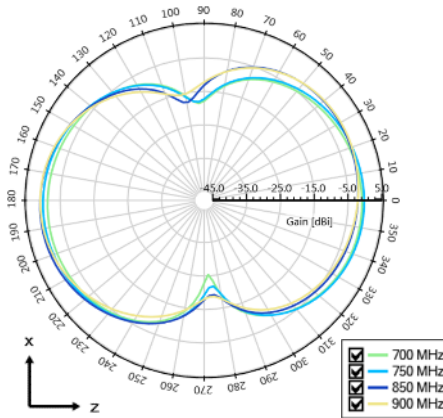
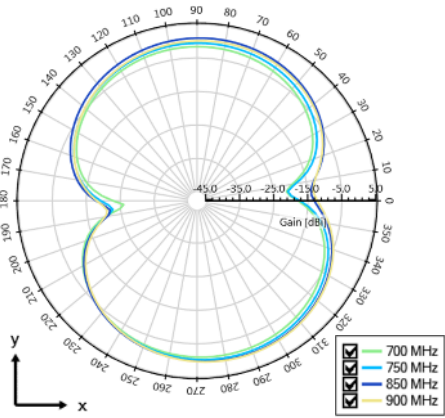
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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### Antenna Radiation Patterns – Low / High Band

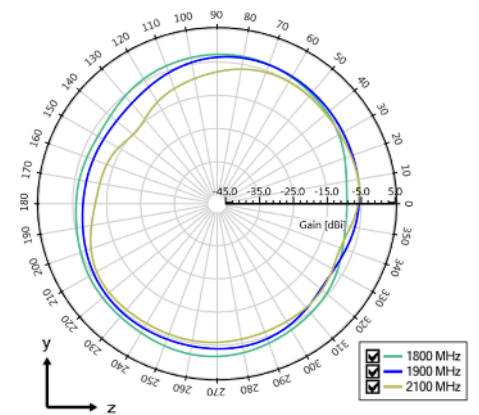
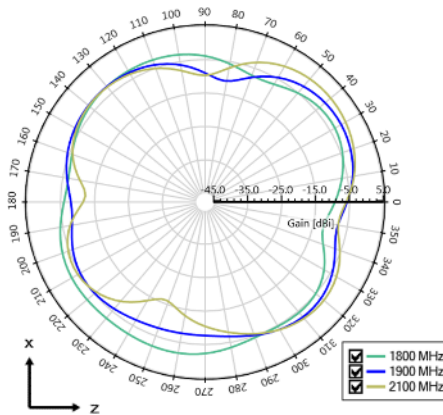
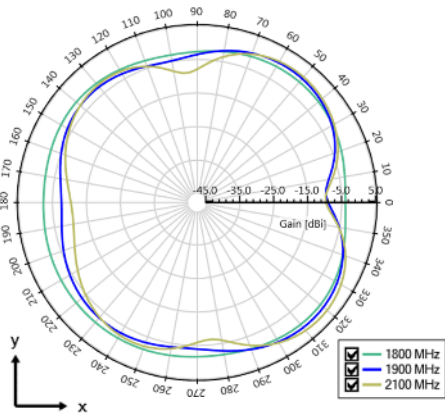
Typical 1004795/1004796 performance 125 x 45 mm PCB



Low Band measured at  
700, 750, 850, 900 MHz



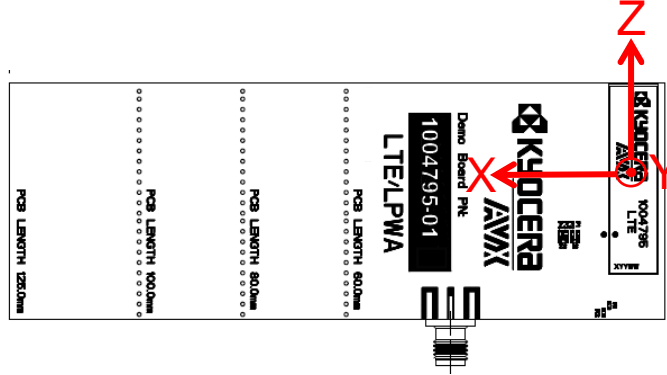
High Band measured at  
1800, 1900, 2100 MHz



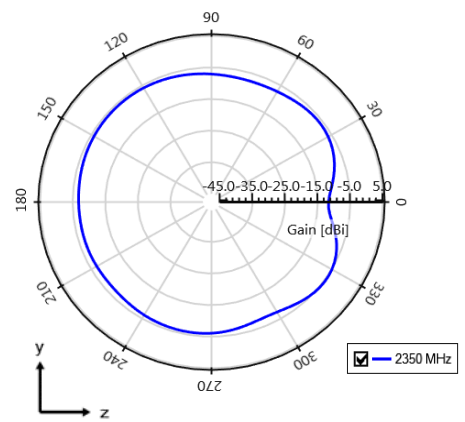
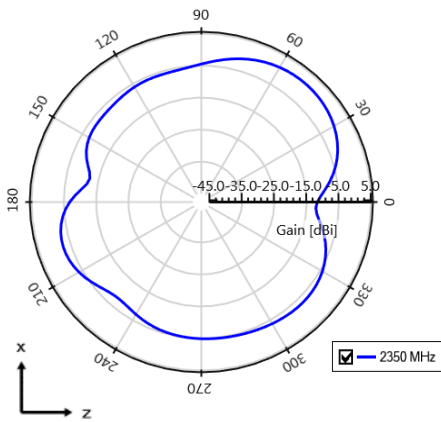
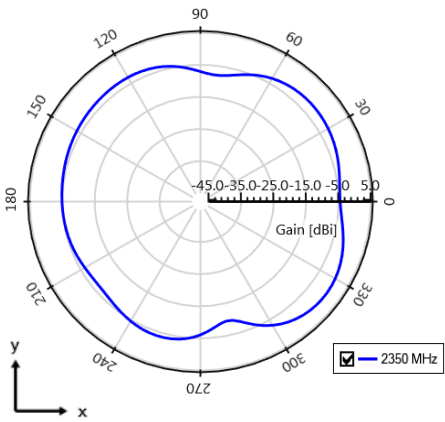
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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### Antenna Radiation Patterns – High Band, Band 7

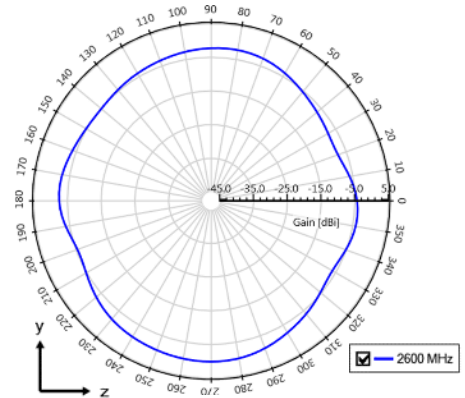
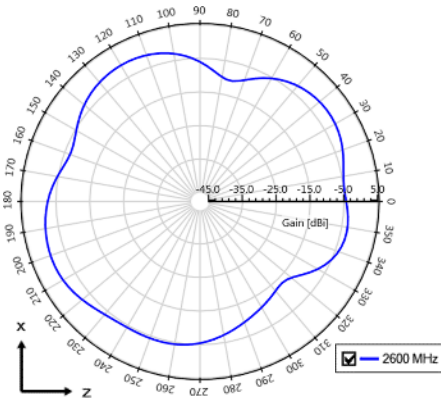
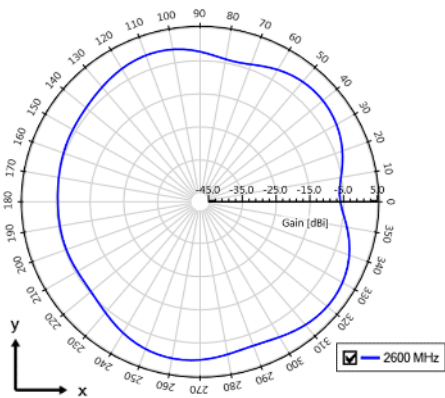
Typical 1004795/1004796 performance 125 x 45 mm PCB



High Band measured at 2350 MHz



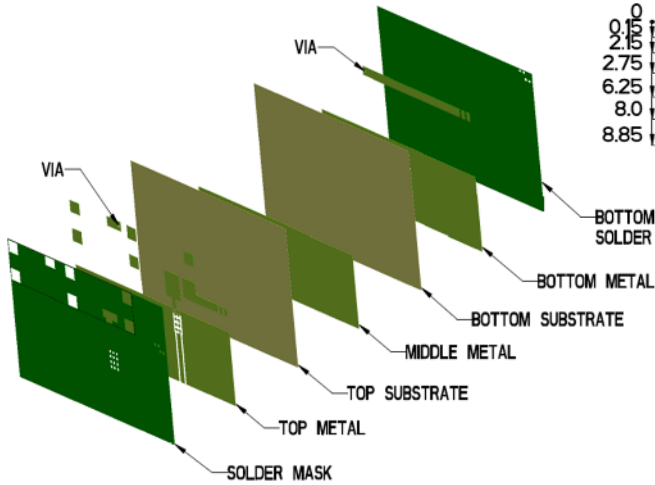
Band 7 measured at 2600 MHz



1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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### Antenna Layout (1004795)

Typical layout dimensions (mm)



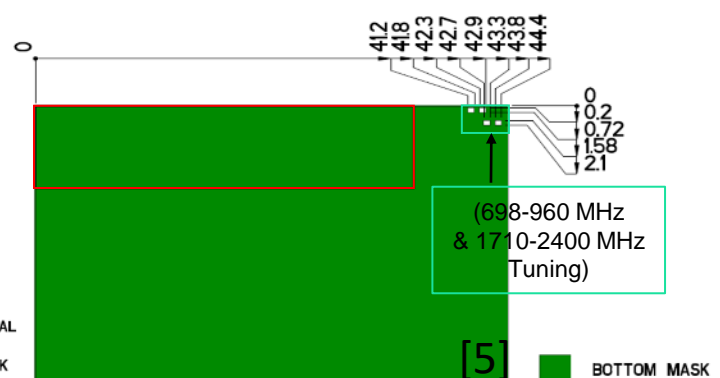
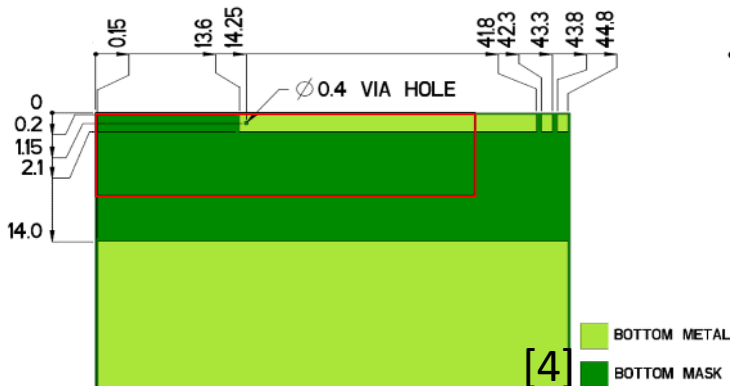
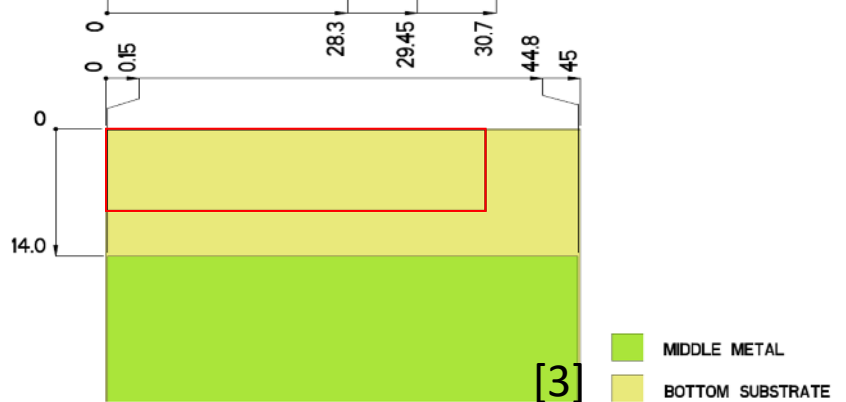
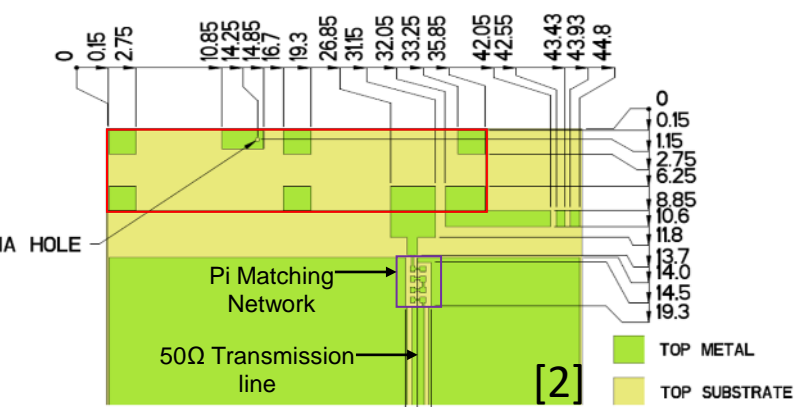
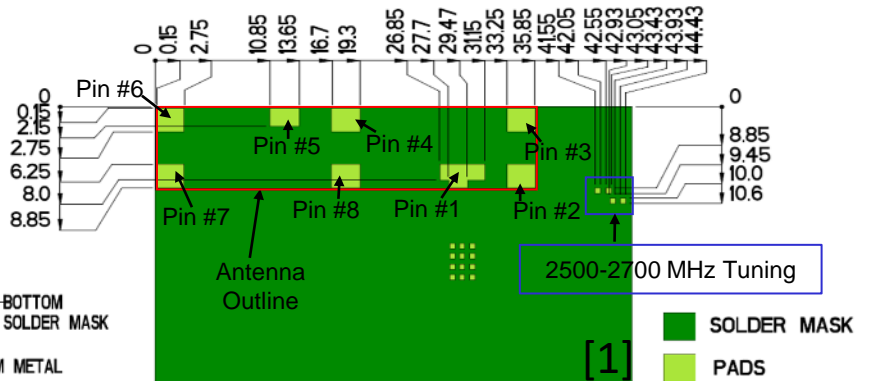
- Additional VIAS: Diam. 0.4mm to be placed around antenna, (no vias on transmission lines).
- Via holes must be covered by solder mask

### Pin Descriptions

Pin#	Description
1	Feed
2	Antenna Tuning
3	Dummy Pad
4	Dummy Pad
5	Antenna Tuning
6	Dummy Pad
7	Dummy Pad
8	Dummy Pad

\*1004796 uses the same layout but mirrored.

Default Pi Matching Network values with instructions can be found under Antenna Matching Network.

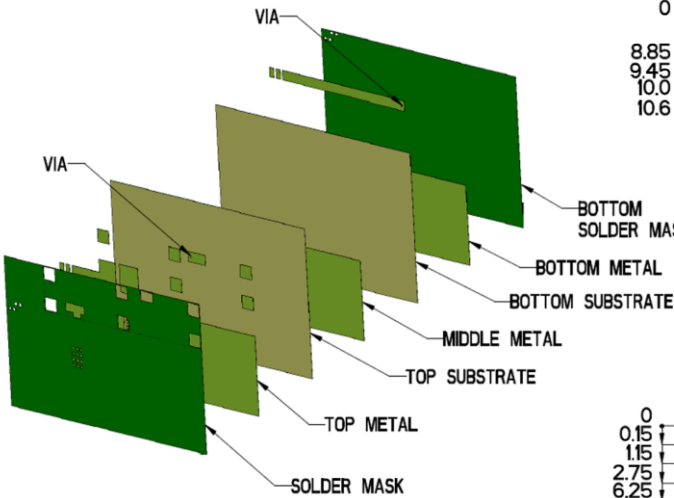




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### Antenna Layout (1004796)

Typical layout dimensions (mm)



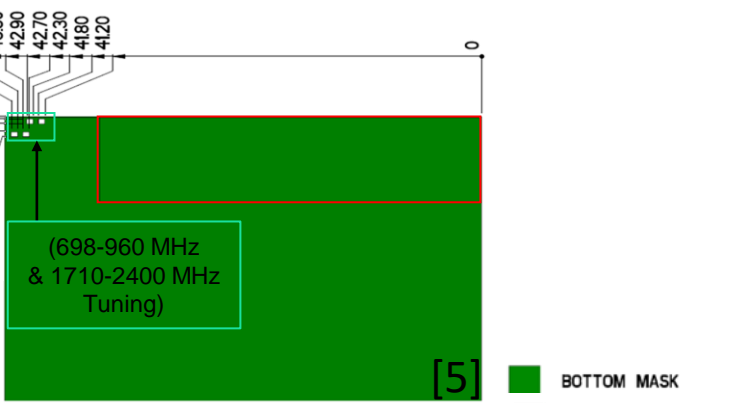
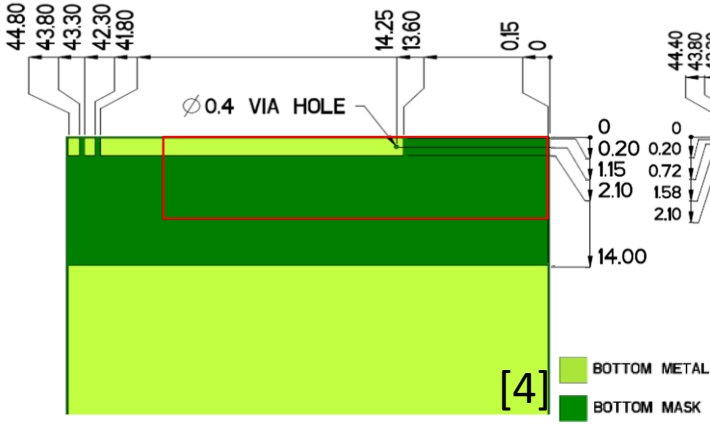
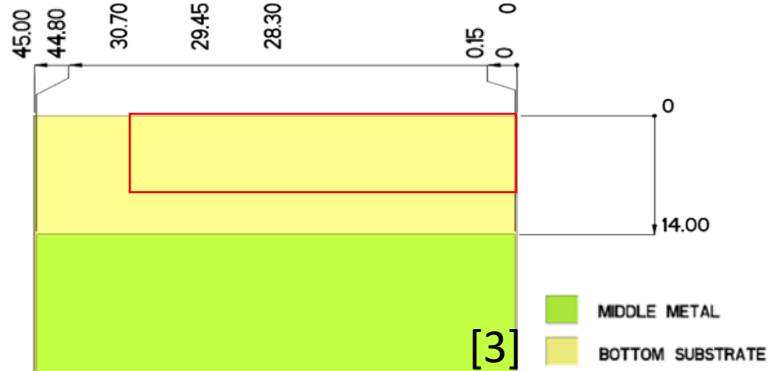
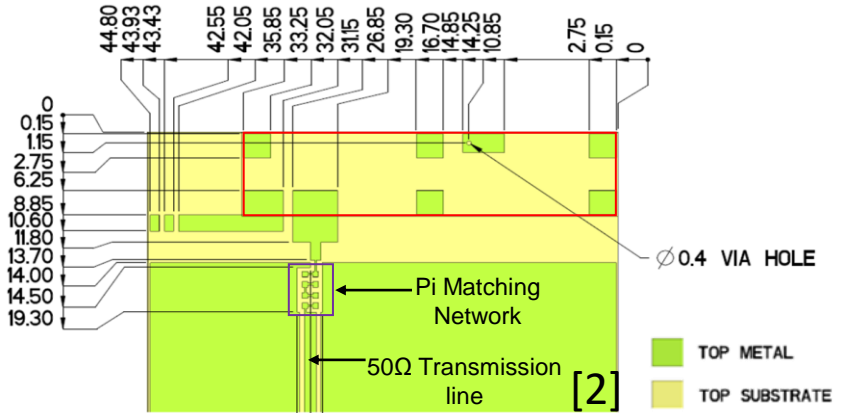
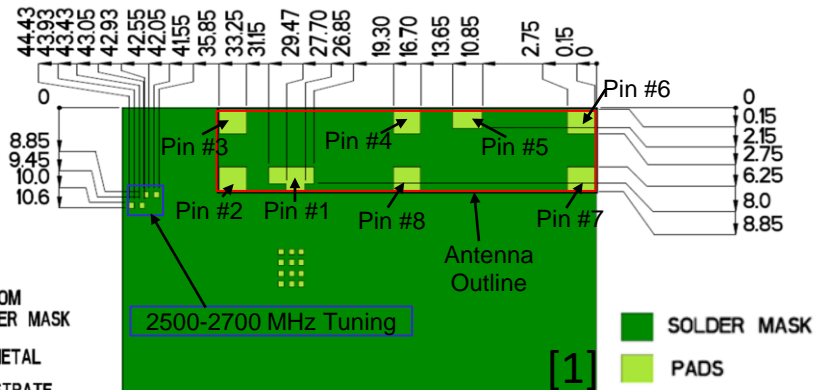
- Additional VIAS: Diam. 0.4mm to be placed around antenna, (no vias on transmission lines).
- Via holes must be covered by solder mask

### Pin Descriptions

Pin#	Description
1	Feed
2	Antenna Tuning
3	Dummy Pad
4	Dummy Pad
5	Antenna Tuning
6	Dummy Pad
7	Dummy Pad
8	Dummy Pad

\*1004795 uses the same layout but mirrored.

Default Pi Matching Network values with instructions can be found under Antenna Matching Network.

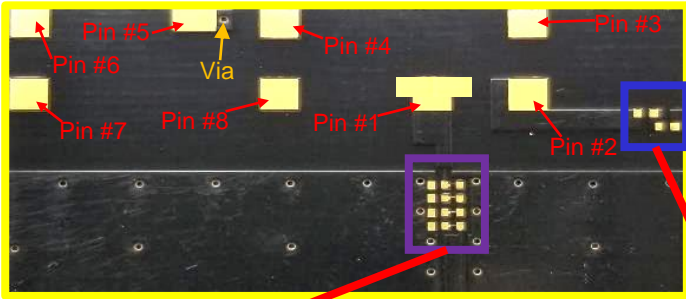


1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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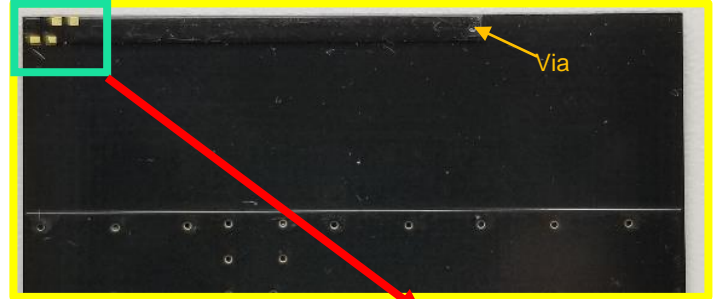
### Antenna Matching Structure (1004795)

Typical matching values on 125 x 45 mm PCB  
\*Also applies to mirrored layout 1004796

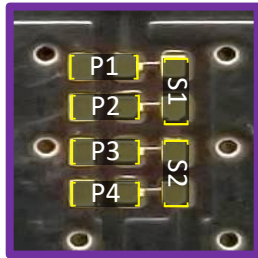
Demo Board Front View



Demo Board Back View

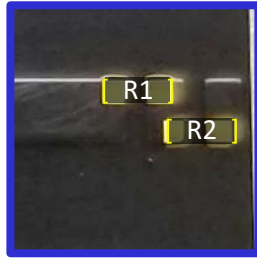


Antenna Matching

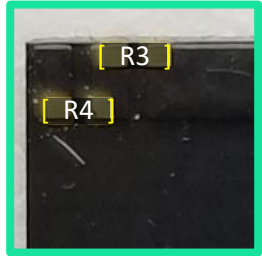


(Antenna Matching): pads are directly inline with the antenna feed trace.

2500-2700 MHz Tuning

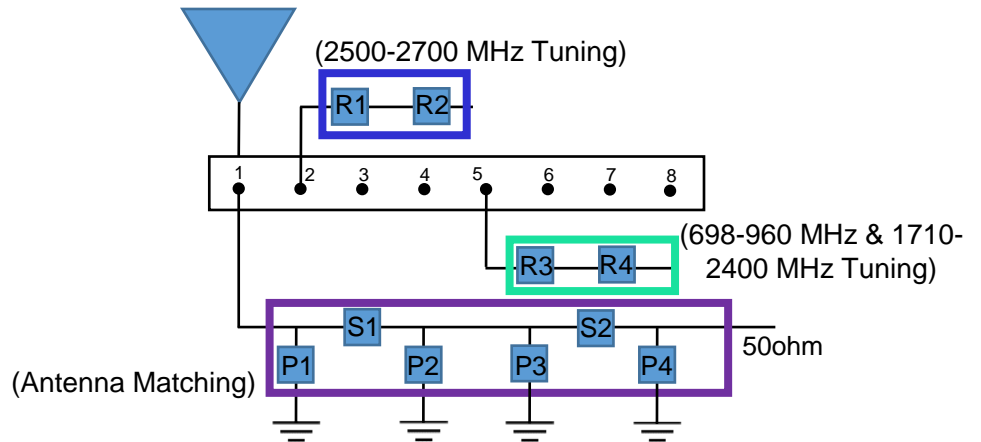


698-960 MHz & 1710-2400 MHz Tuning



#### Pin Descriptions

Pin#	Description
1	Feed
2	Antenna Tuning
3	Dummy Pad
4	Dummy Pad
5	Antenna Tuning
6	Dummy Pad
7	Dummy Pad
8	Dummy Pad



	P1	S1	P2	P3	S2	P4	R1	R2	R3-R4
<b>Default Matching</b>	8.2nH	4.7pF	0.3pF	N/A	0 Ohm	0.5pF	0 Ohm	N/A	0 Ohm
<b>Tolerance</b>	± 0.1nH	± 0.05pF	± 0.05pF	N/A		± 0.05pF		N/A	

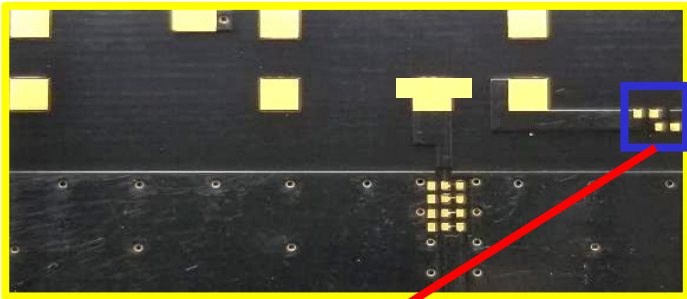
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Antenna Tuning Options (1004795)**

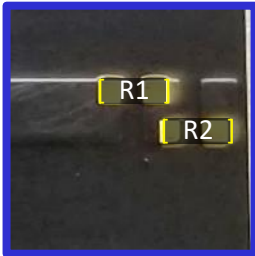
Typical matching values on 125 x 45 mm PCB

\*Also applies to mirrored layout 1004796

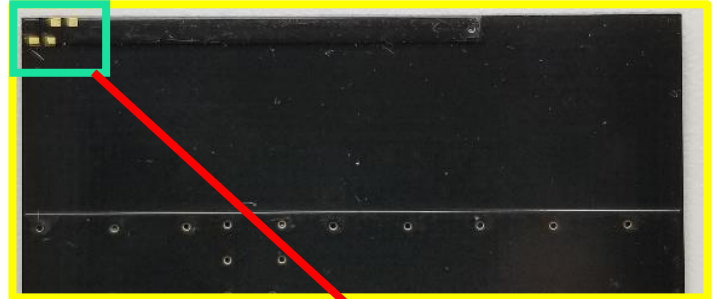
Demo Board Front View



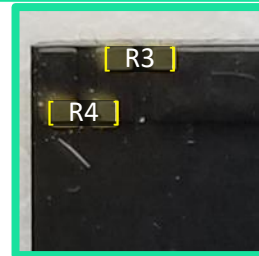
2500-2700 MHz Tuning



Demo Board Back View



698-960 MHz  
& 1710-2400 MHz Tuning



Options for Tuning: "698-960 MHz & 1710-2400 MHz"

MODE	T1	T2		T3	
PADS	Connect: R3 & R4	Remove: R4		Remove: R4 & R3	
Outcome: (Ref: Baseline)	BASELINE	(698-960 MHz) ~20 MHz shift high	(1710-2400 MHz) ~20 MHz shift high	(698-960 MHz) ~30 MHz shift high	(1710-2400 MHz) ~35 MHz shift high

\*R= 0 Ohm

Options for Tuning: "2500-2700 MHz"

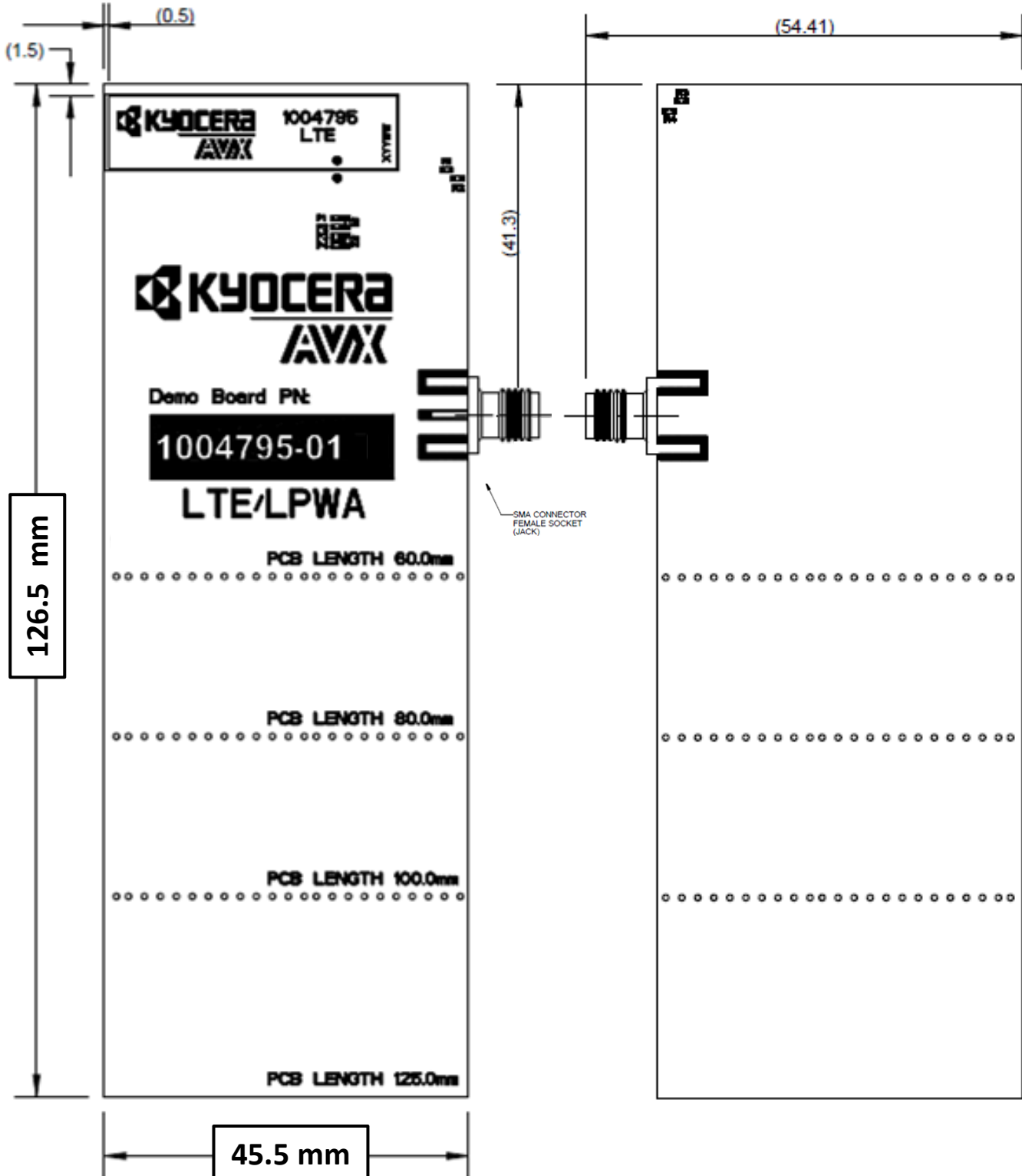
MODE	T4	T5	T6
PADS	Connect: R1	Connect: R1 & R2	Remove: R1 & R2
Outcome: (Ref: Baseline)	BASELINE	~60 MHz shift low	~70 MHz shift high

\*R= 0 Ohm

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Antenna Demo Board (1004795-01)**

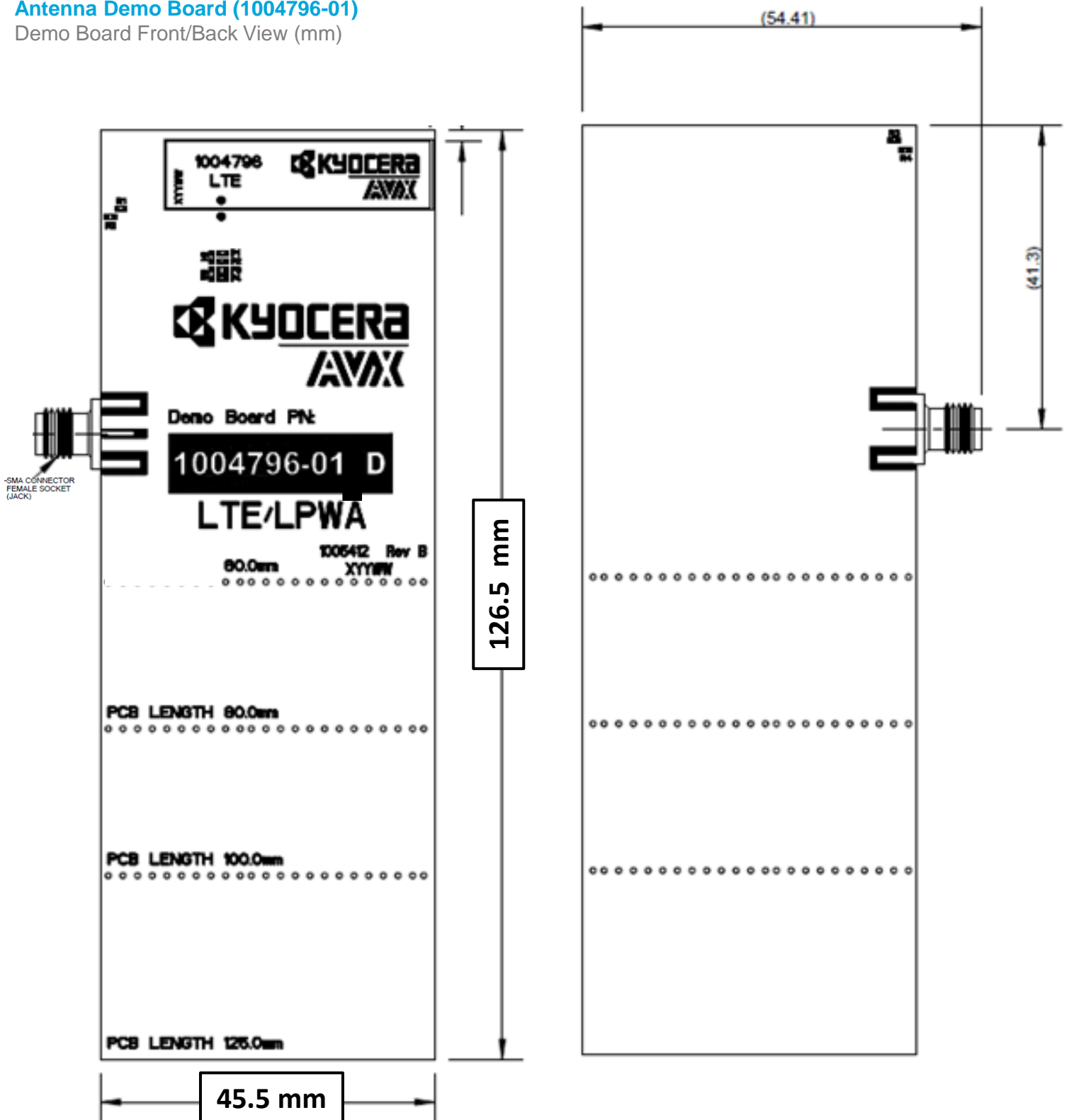
Demo Board Front/Back View (mm)



1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Antenna Demo Board (1004796-01)**

Demo Board Front/Back View (mm)



1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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# Appendix 1

Appendix 1 gives instructions on how to achieve coverage at low frequency through impedance matching network.

(315 MHz / 400 MHz / 433 MHz / 450 MHz )

Frequency (MHz)	315	400	433	450
Peak Gain	-3.0 dBi	-3.0 dBi	-1.8 dBi	-3.0 dBi
Average Efficiency	17%	21%	26%	23%
VSWR Match	< 1.5:1			
Polarization	Linear			
Power Handling	2 Watt CW			
Feed Point Impedance	50 Ω unbalanced			

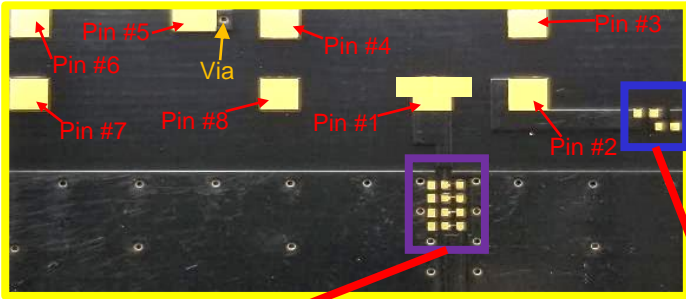
\*Data shown above has Appendix 1 matching applied on 125 x 45 mm pcb.

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

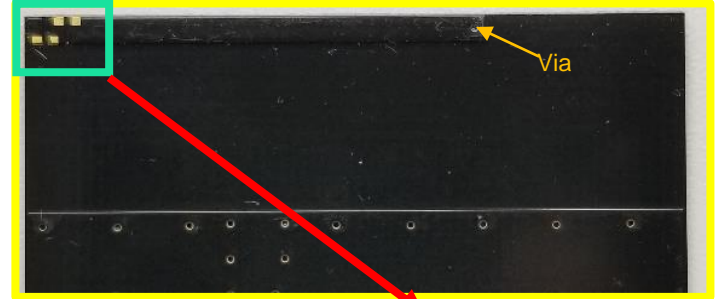
### Appendix 1: Antenna Matching Structure (1004795)

Typical matching values on 125 x 45 mm PCB

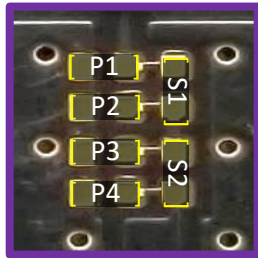
Demo Board Front View



Demo Board Back View

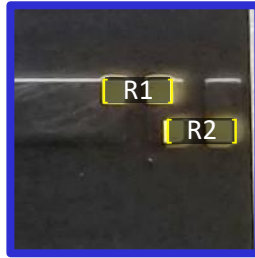


Antenna Matching

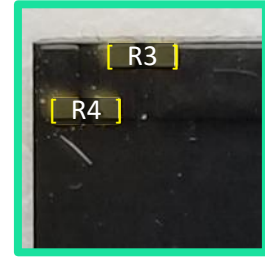


(Antenna Matching):  
pads are directly inline with  
the antenna feed trace.

Frontside Tuning

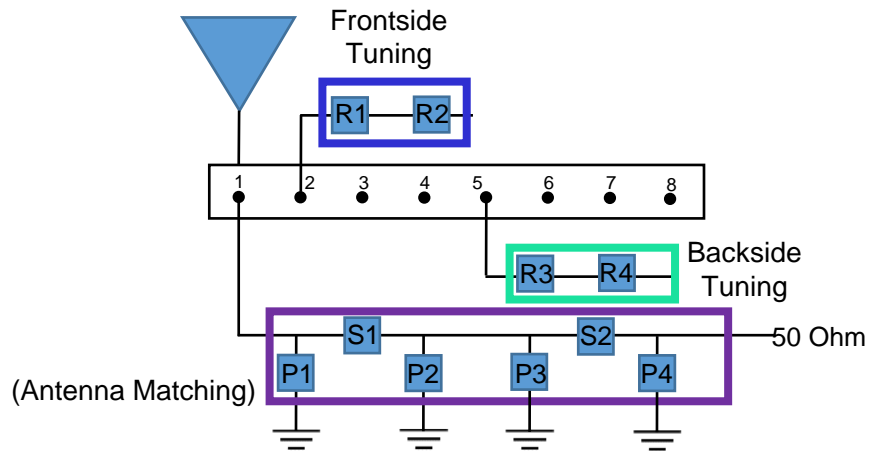


Backside Tuning



#### Pin Descriptions

Pin#	Description
1	Feed
2	Antenna Tuning
3	Dummy Pad
4	Dummy Pad
5	Antenna Tuning
6	Dummy Pad
7	Dummy Pad
8	Dummy Pad



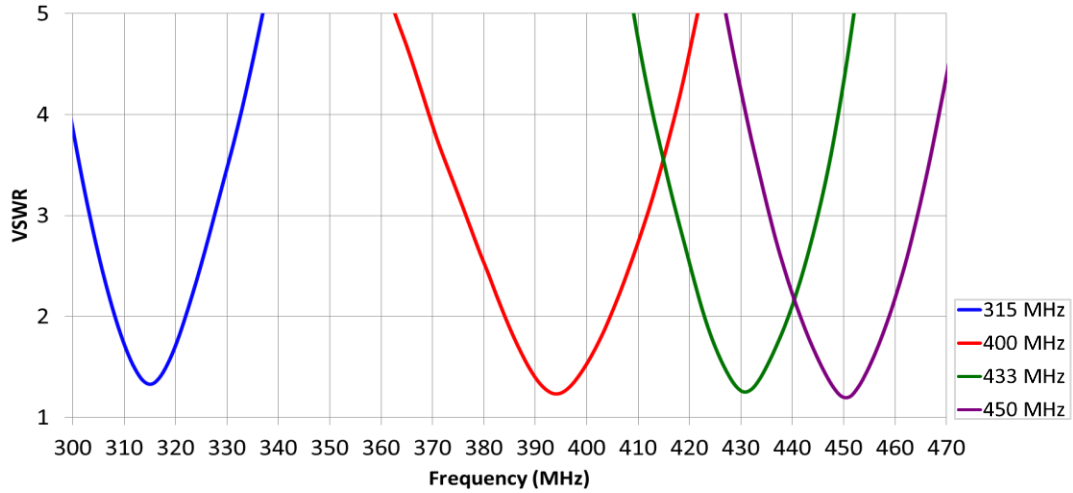
Frequency	P1	S1	P2	P3	S2	P4	R1	R2	R3-R4
315 MHz	N/A	120nH	12pF	N/A	18nH	N/A	0 Ohm	N/A	0 Ohm
400 MHz	N/A	75nH	10pF	N/A	0 Ohm	N/A	0 Ohm	N/A	0 Ohm
433 MHz	N/A	62nH	12pF	N/A	0 Ohm	N/A	0 Ohm	N/A	0 Ohm
450 MHz	N/A	56nH	12pF	N/A	0 Ohm	N/A	0 Ohm	N/A	0 Ohm

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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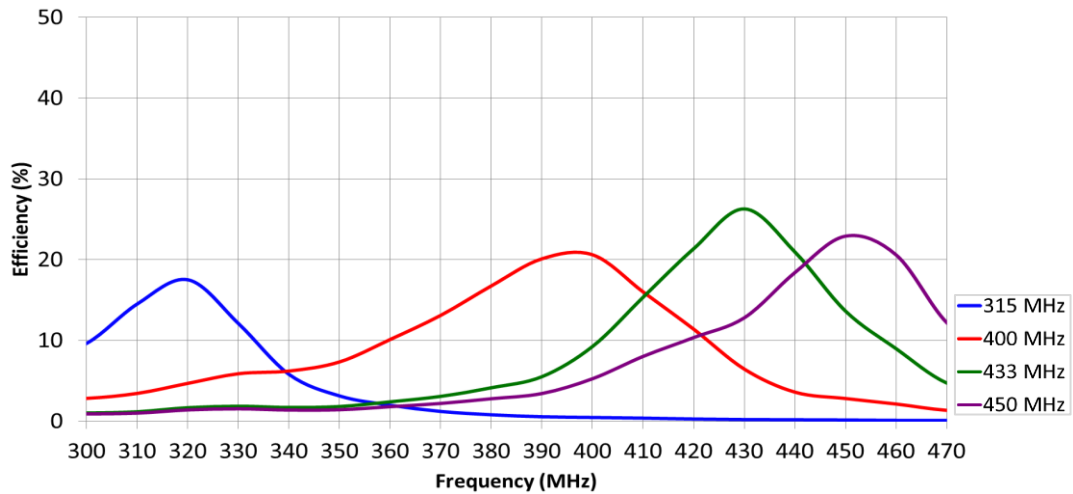
### Appendix 1: VSWR, Efficiency, and Peak Gain Plots

Typical 1004795 performance 125 x 45 mm PCB

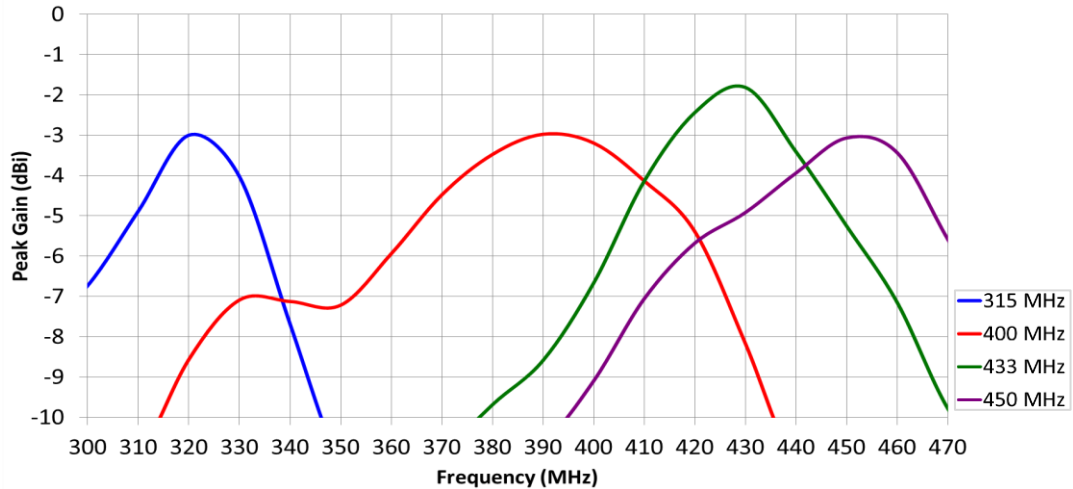
**VSWR**  
(300 – 470 MHz)



**Efficiency**  
(300 – 470 MHz)



**Peak Gain**  
(300 – 470 MHz)

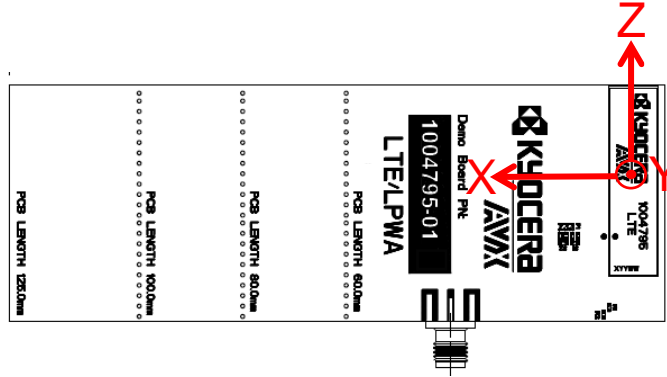




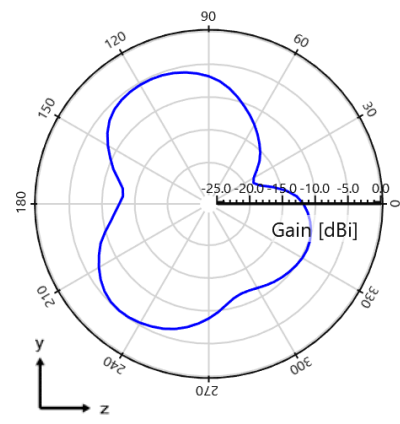
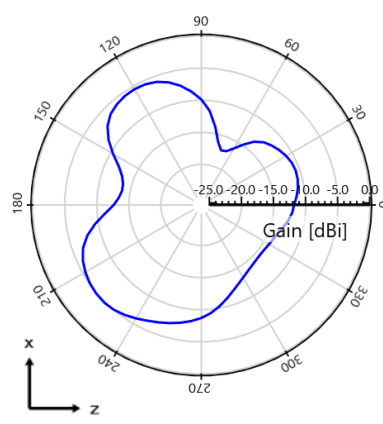
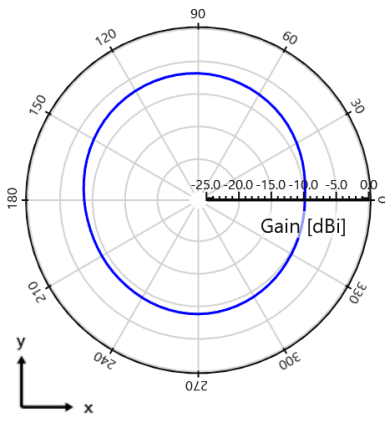
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Appendix 1: Antenna Radiation Patterns – 315 MHz and 400 MHz**

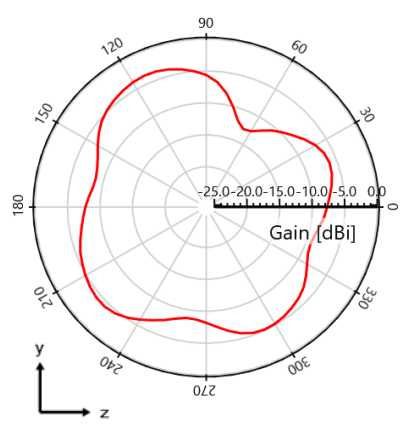
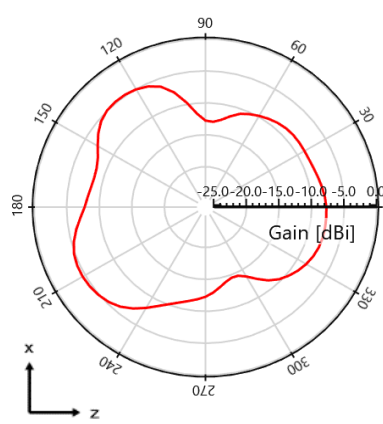
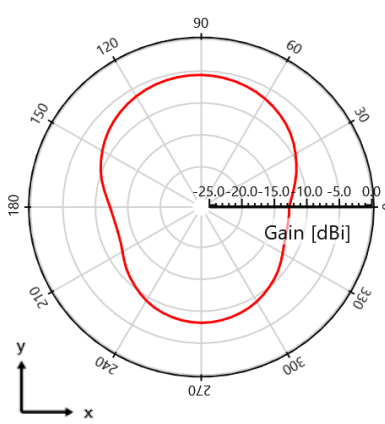
Typical 1004795 performance 125 x 45 mm PCB



Measured at 315 MHz



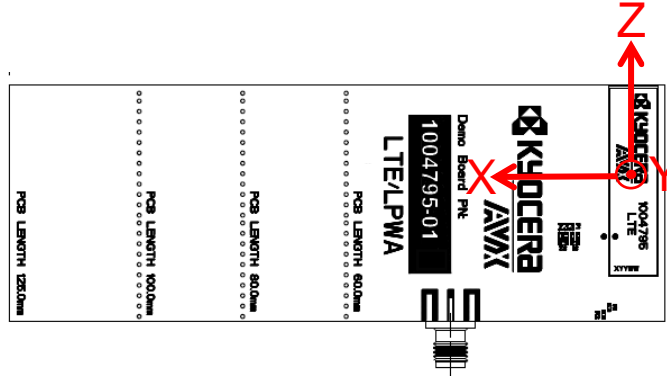
Measured at 400 MHz



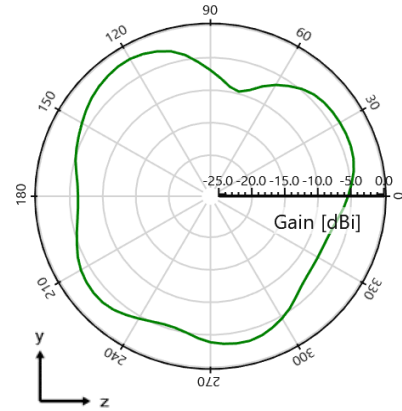
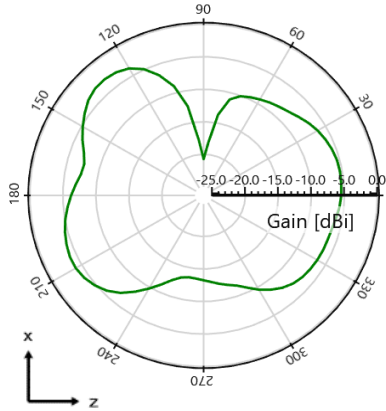
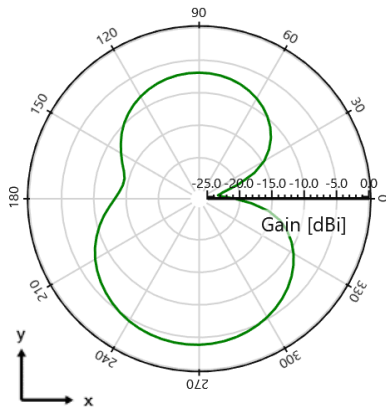
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

**Appendix 1: Antenna Radiation Patterns – 433 MHz and 450 MHz**

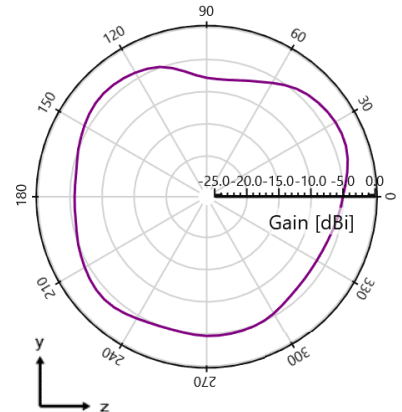
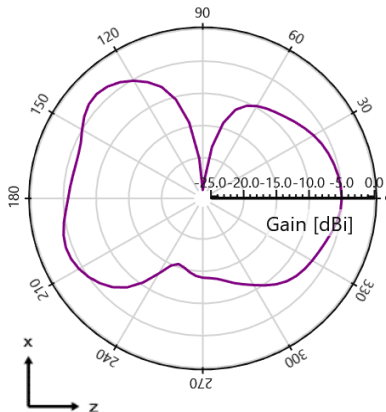
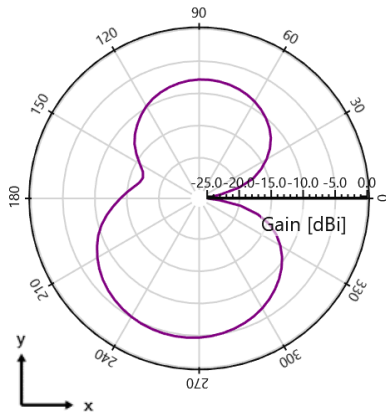
Typical 1004795 performance 125 x 45 mm PCB



Measured at 433 MHz



Measured at 450 MHz



1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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# Appendix 2

Appendix 2 gives instructions on how to achieve increased bandwidth to cover 600-960 MHz through impedance matching network.

(600-960 MHz)  
 (1710-2400 MHz)  
 (2500-2700 MHz)

Frequency (MHz)	600-698	698-960	1710-2400	2500-2700
Peak Gain	1.5 dBi	1.2 dBi	2.4 dBi	0.9 dBi
Average Efficiency	61%	55%	52%	48%
VSWR Match	< 5.5:1	< 3.7:1	< 2.5:1	< 3.0:1
Polarization	Linear			
Power Handling	2 Watt CW			
Feed Point Impedance	50 Ω unbalanced			

\*Data shown above has Appendix 2 matching applied on 125 x 45 mm pcb.

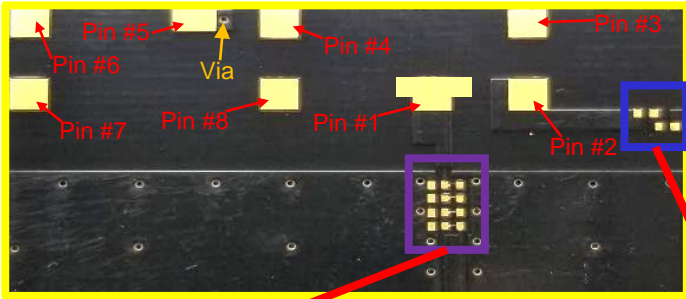
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

### Appendix 2: Antenna Matching Structure (1004795)

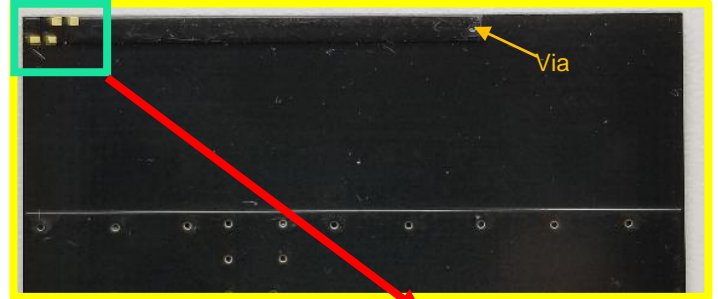
Typical matching values on 125 x 45 mm PCB

\*Also applies to mirrored layout 1004796

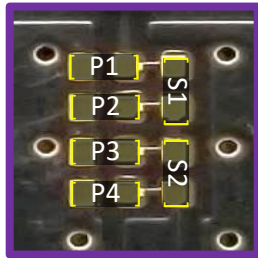
Demo Board Front View



Demo Board Back View

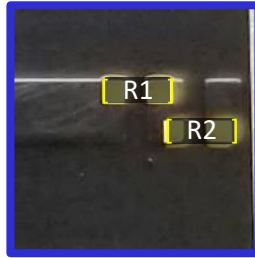


Antenna Matching

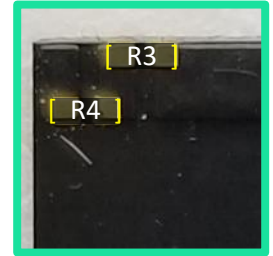


(Antenna Matching):  
pads are directly inline with the antenna feed trace.

2500-2700 MHz Tuning

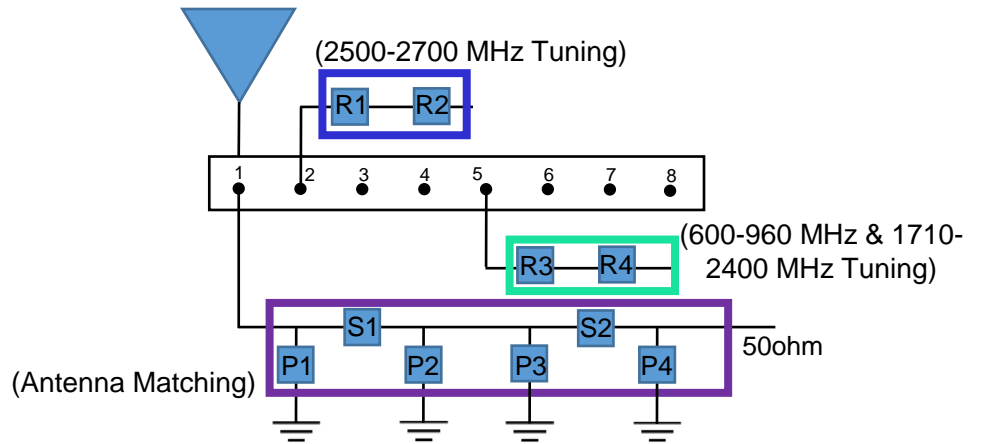


600-960 MHz & 1710-2400 MHz Tuning



#### Pin Descriptions

Pin#	Description
1	Feed
2	Antenna Tuning
3	Dummy Pad
4	Dummy Pad
5	Antenna Tuning
6	Dummy Pad
7	Dummy Pad
8	Dummy Pad



	P1	S1	P2	P3	S2	P4	R1	R2	R3-R4
<b>Default Matching</b>	10nH	3.3pF	N/A	N/A	0 Ohm	N/A	0 Ohm	N/A	0 Ohm
<b>Tolerance</b>	± 0.1nH	± 0.1pF	N/A	N/A		N/A		N/A	

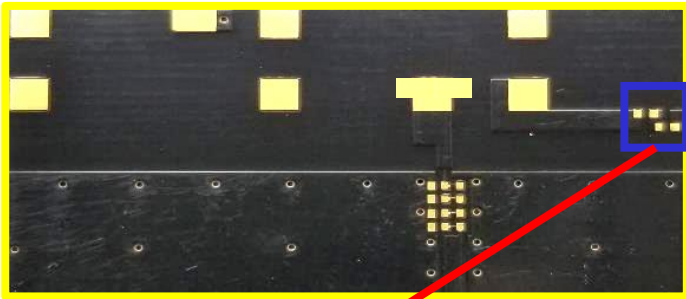
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

**Appendix 2: Antenna Tuning Options (1004795)**

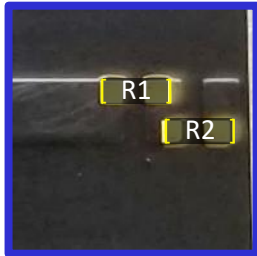
Typical matching values on 125 x 45 mm PCB

\*Also applies to mirrored layout 1004796

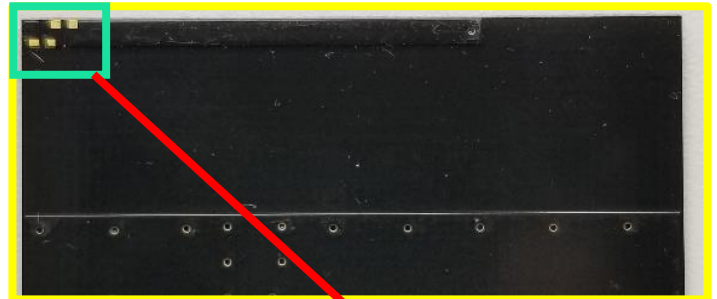
Demo Board Front View



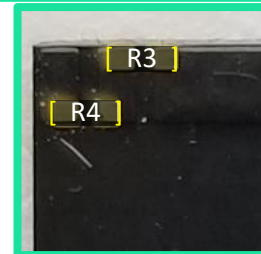
2500-2700 MHz Tuning



Demo Board Back View



600-960 MHz  
& 1710-2400 MHz Tuning



Options for Tuning: "600-960 MHz & 1710-2400 MHz"

MODE	T1	T2		T3	
PADS	Connect: R3 & R4	Remove: R4		Remove: R4 & R3	
Outcome: (Ref: Baseline)	BASELINE	(600-960 MHz) ~20 MHz shift high	(1710-2400 MHz) ~20 MHz shift high	(600-960 MHz) ~30 MHz shift high	(1710-2400 MHz) ~35 MHz shift high

\*R= 0 Ohm

Options for Tuning: "2500-2700 MHz"

MODE	T4	T5	T6
PADS	Connect: R1	Connect: R1 & R2	Remove: R1 & R2
Outcome: (Ref: Baseline)	BASELINE	~60 MHz shift low	~70 MHz shift high

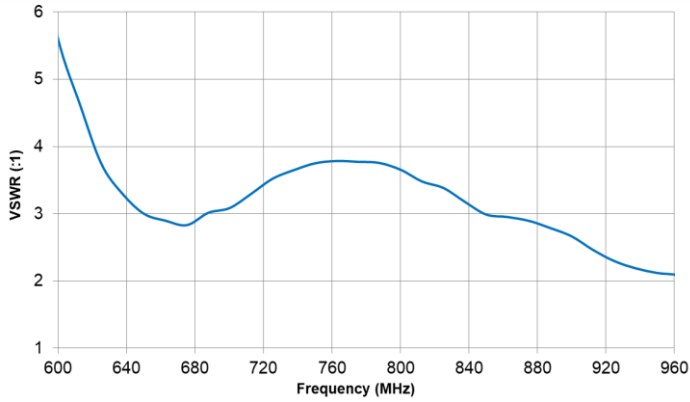
\*R= 0 Ohm

1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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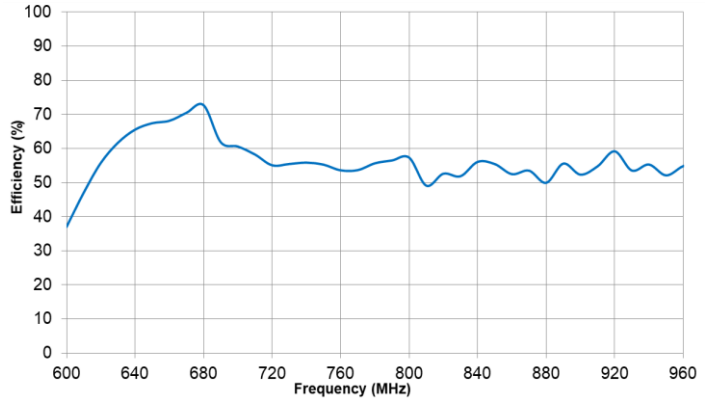
## Appendix 2: VSWR and Efficiency Plots

Typical 1004795/1004796 performance 125 x 45 mm PCB

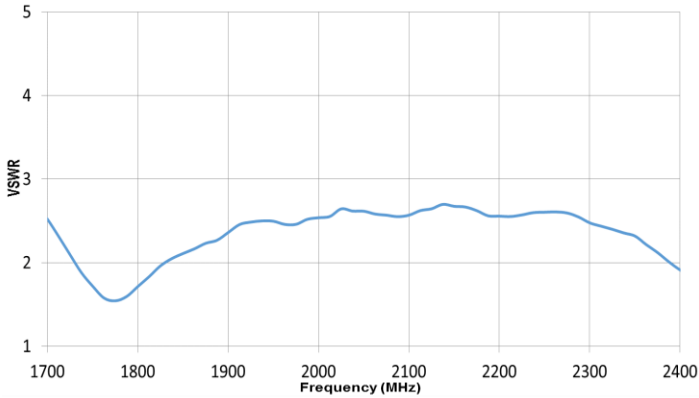
**Low Band VSWR**



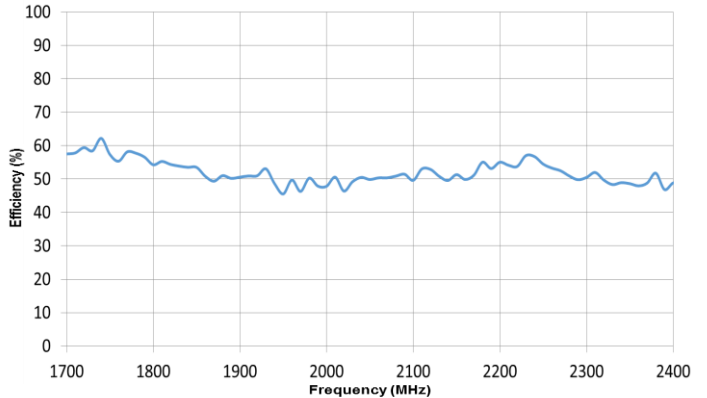
**Low Band Efficiency**



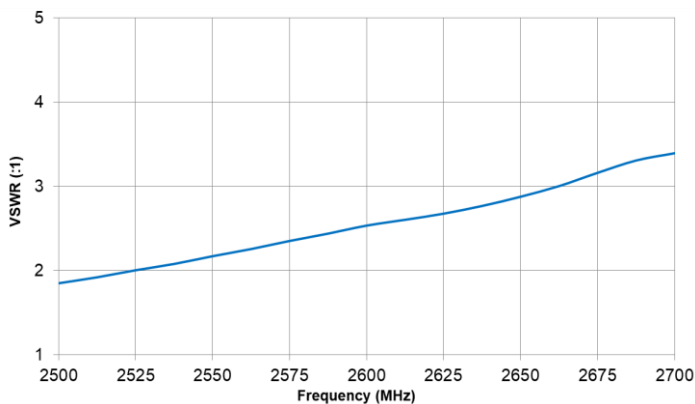
**High Band VSWR**



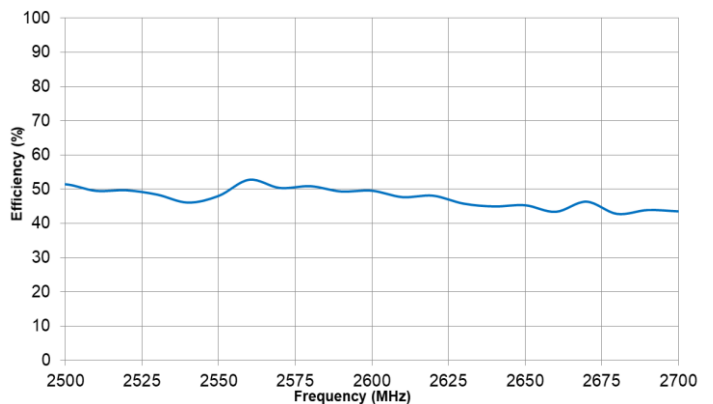
**High Band Efficiency**



**Band 7 VSWR**



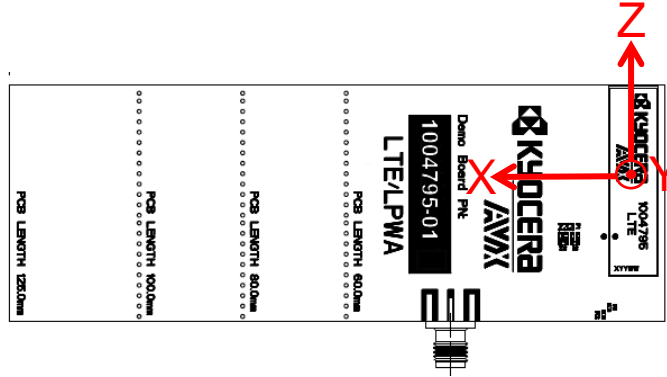
**Band 7 Efficiency**



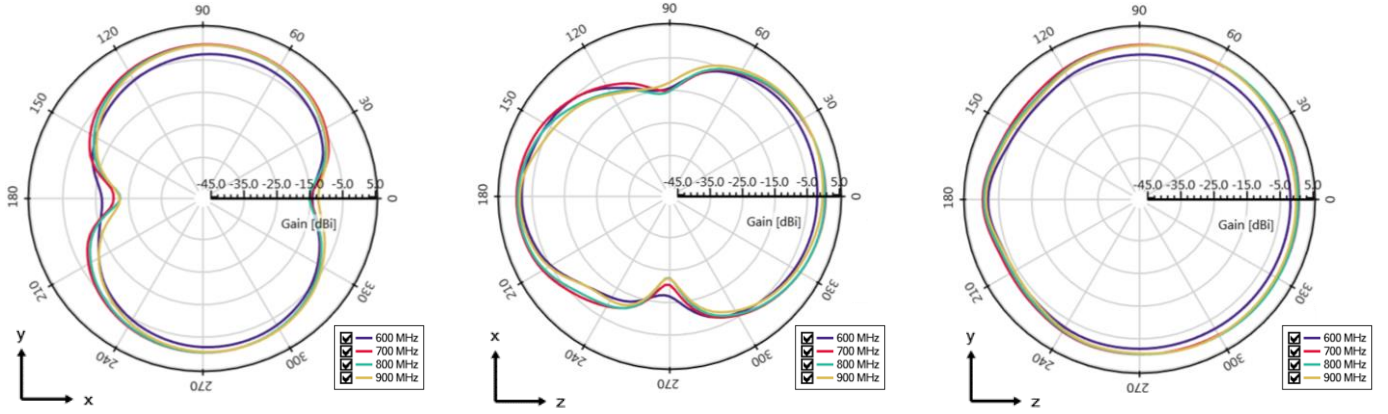
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Appendix 2: Antenna Radiation Patterns – Low / High Band**

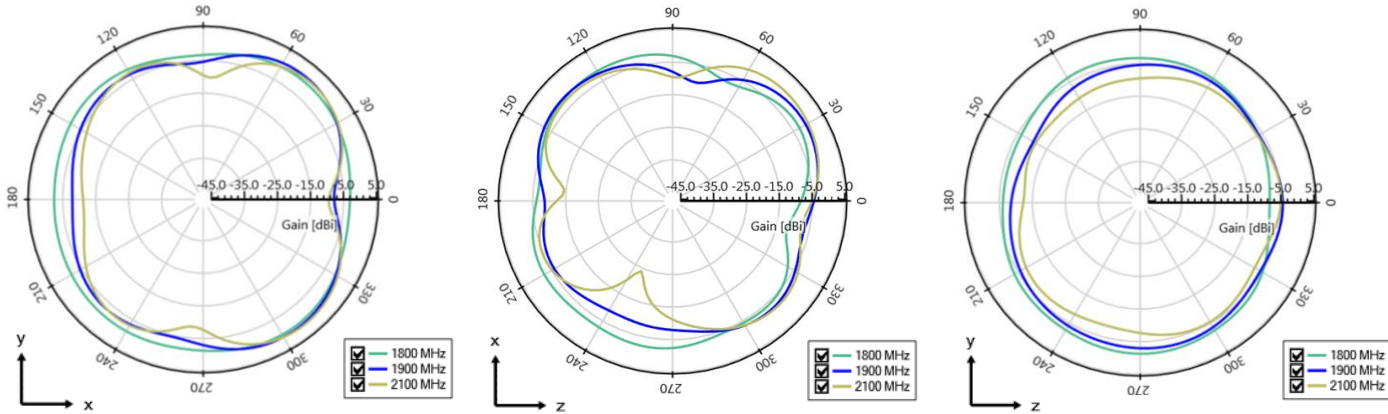
Typical 1004795/1004796 performance 125 x 45 mm PCB



**Low Band measured at  
600, 700 800, 900 MHz**



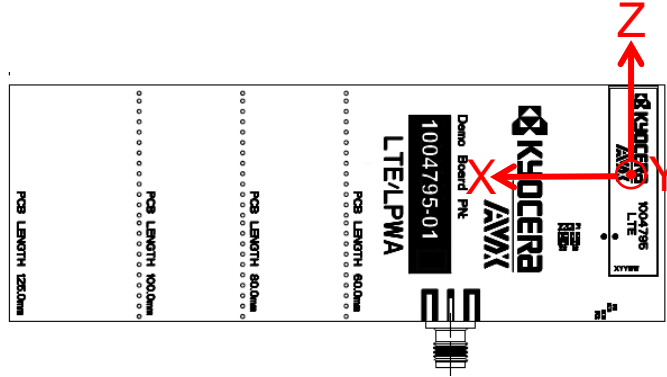
**High Band measured at  
1800, 1900, 2100 MHz**



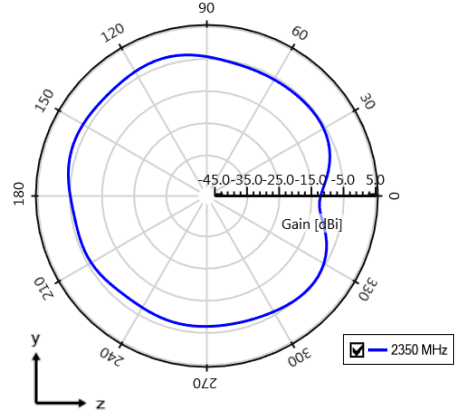
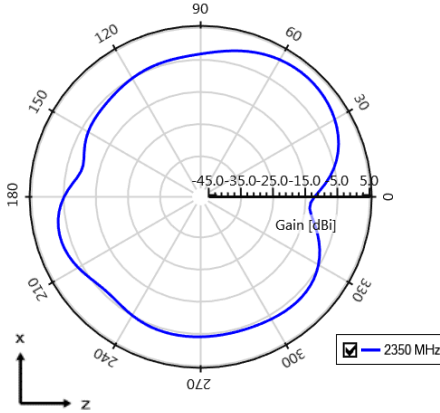
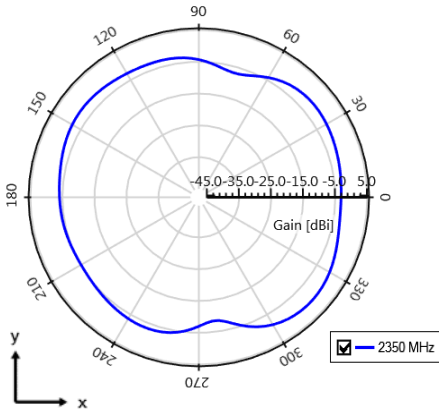
1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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**Appendix 2: Antenna Radiation Patterns – High Band, Band 7**

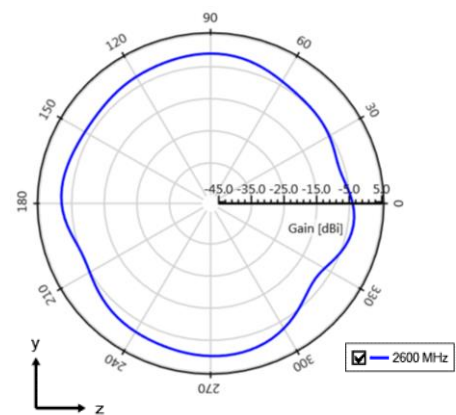
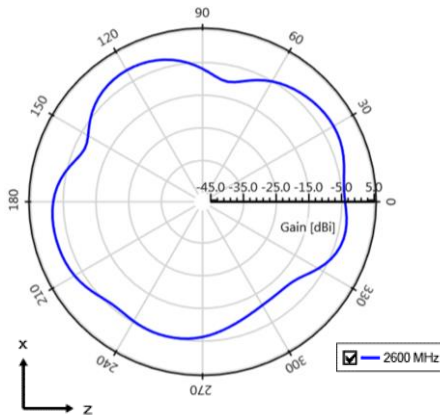
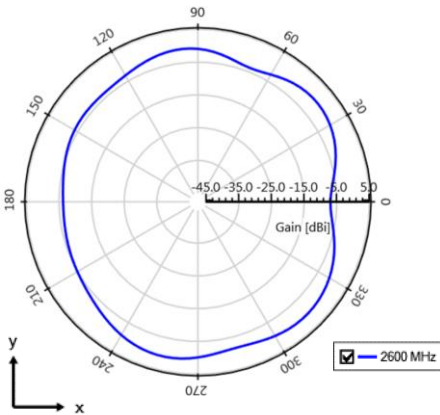
Typical 1004795/1004796 performance 125 x 45 mm PCB



High Band measured at 2350 MHz



Band 7 measured at 2600 MHz

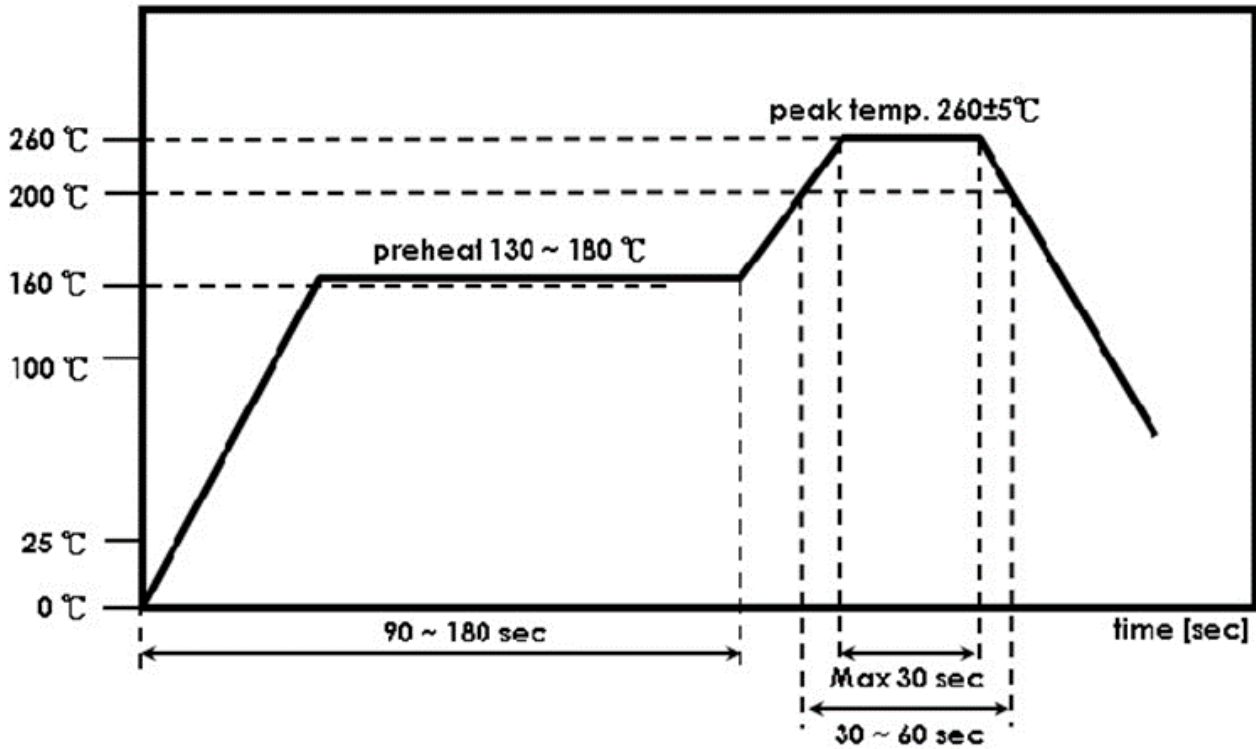




1004795 / 1004796 Universal Broadband LTE KYOCERA AVX Embedded Antenna Specifications.  
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### Recommended Reflow Soldering Profile

The recommended method for soldering the antenna to the board is forced convection reflow soldering. The following suggestions provide information on how to optimize the reflow process for the FR4 antenna:



\*Adjust the reflow duration to create good solder joints without raising the antenna temperature beyond the allowed maximum of 260° C.

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