

Part No. 9001939

LTE Antenna

698-960 MHz; 1710-2170 MHz

Supports: Broadband LTE, 4G/5G, LTE CAT-M, NB-IoT, Cellular LPWA



LTE antenna

Low Band: 698 – 960 MHz

High Band: 1710 - 2170 MHz

Electrical Specifications

Frequency (MHz)	698 - 960	1710 - 2170
Peak Gain (dBi)	-3.3	0.9
Average Efficiency (%)	11.5	43.5
Return Loss (dB)	< -2.5	< -3
Feed Point Impedance	50 ohms unbalanced	
Polarization	Linear	
Power Handling	2.0 Watt CW	

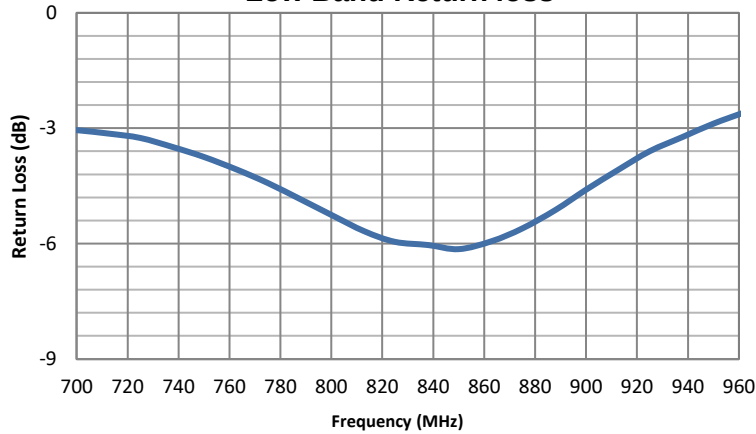
Mechanical Specifications & Ordering Part Number

Ordering Part #	9001939
Dimensions (mm)	34.5 x 16.3 x 0.2
Mounting	using 3M 467MP Adhesive

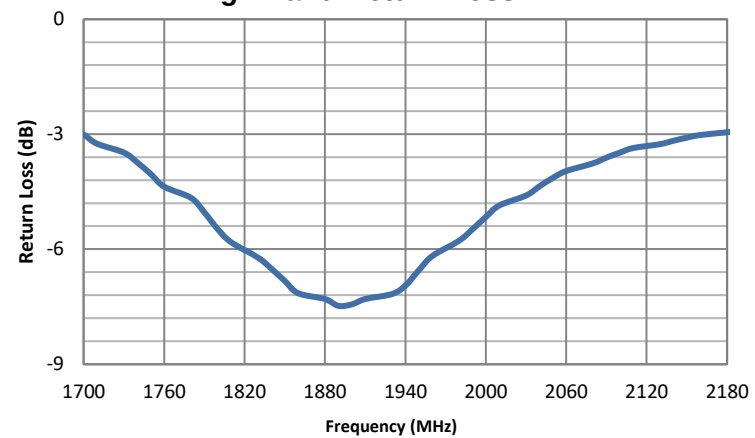
KYOCERA AVX Components Corporation
One AVX Boulevard
Fountain Inn, S.C. 29644-9039 USA
+1 (864) 967-2150

Return Loss, Efficiency and Peak Gain Plots

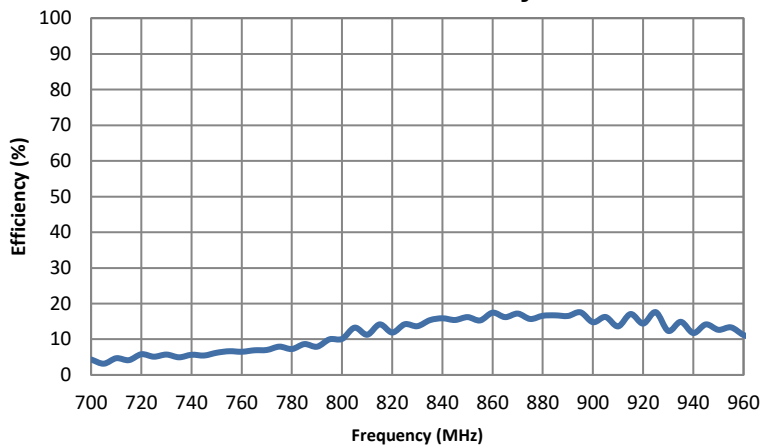
Low Band Return loss



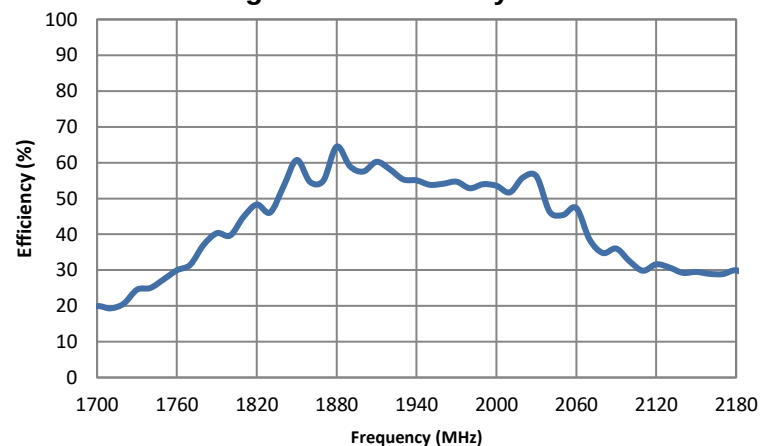
High Band Return Loss



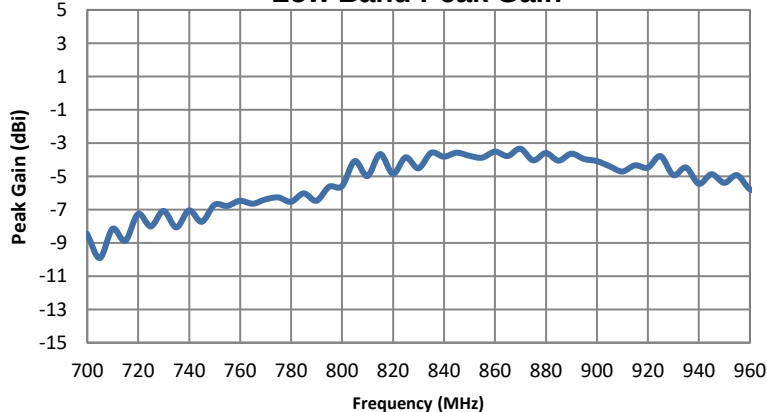
Low Band Efficiency



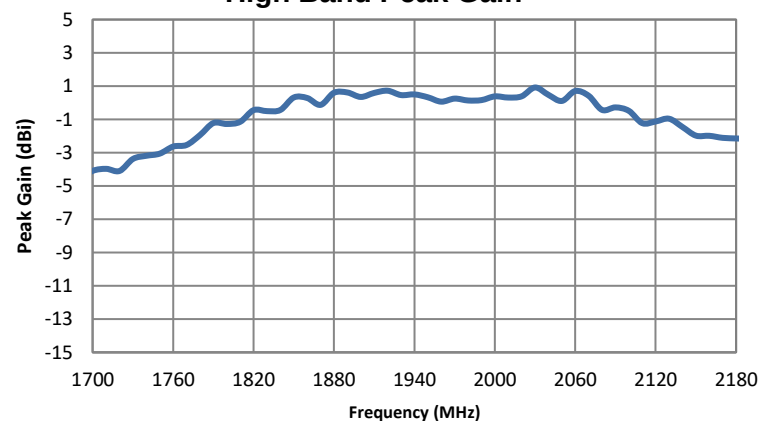
High Band Efficiency



Low Band Peak Gain

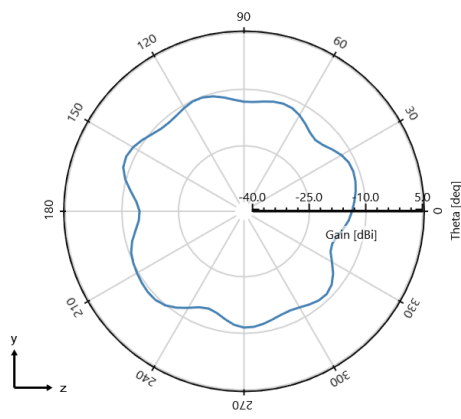
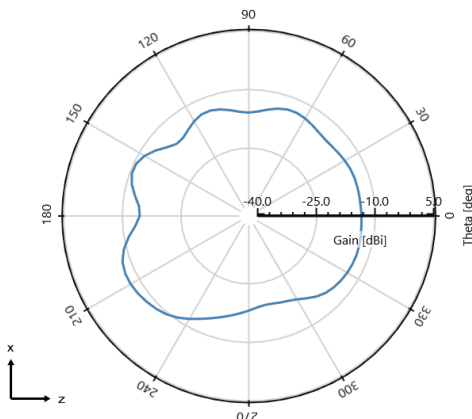
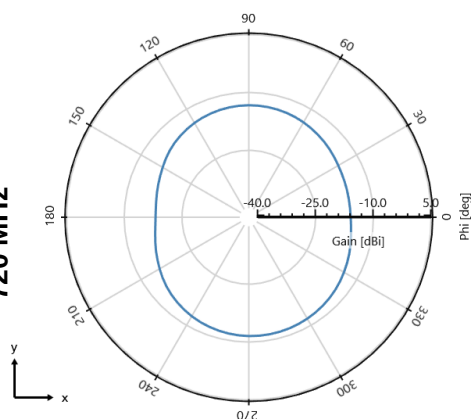


High Band Peak Gain

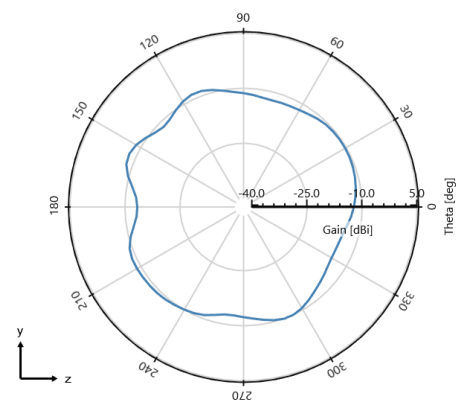
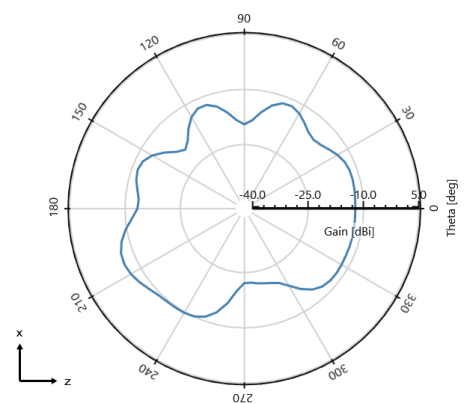
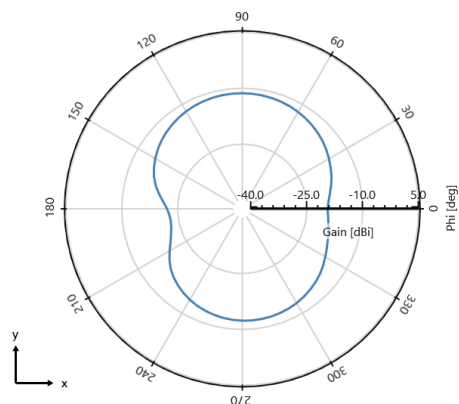


Antenna Radiation Patterns – Low Band

Low Band measured at
720 MHz

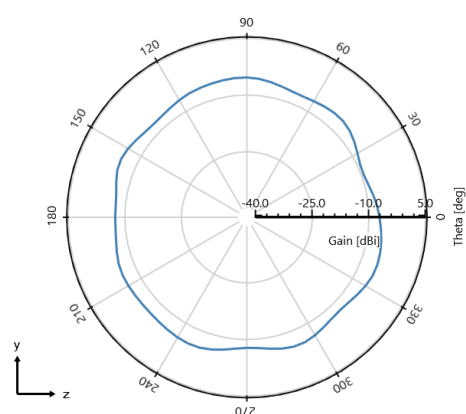
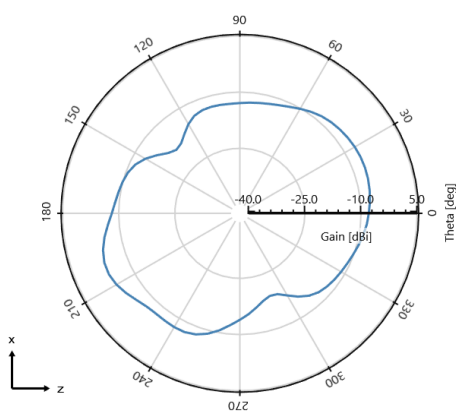
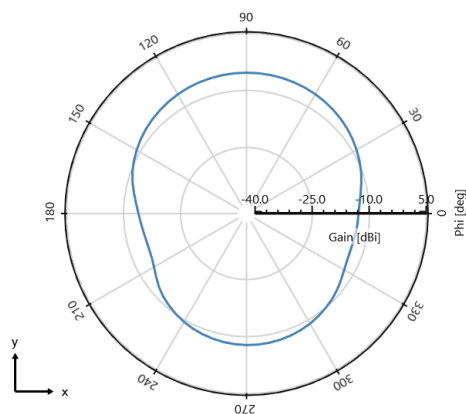


Low Band measured at
760 MHz

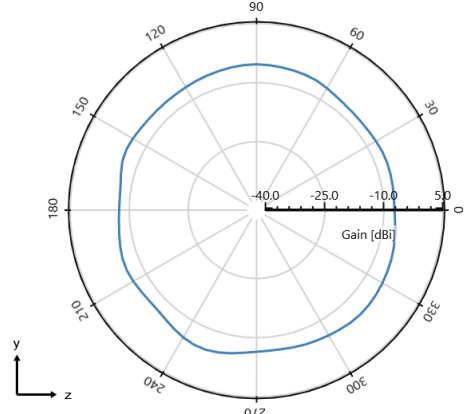
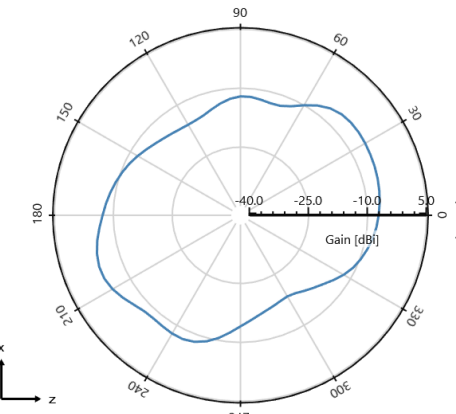
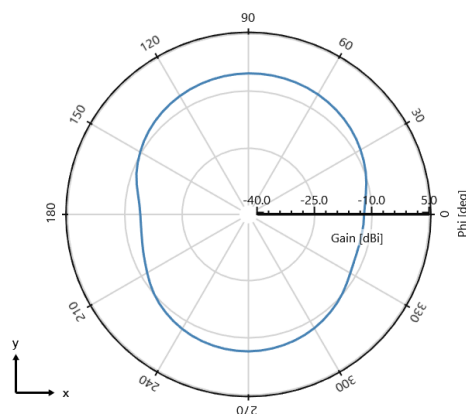


Antenna Radiation Patterns – Low Band cont.

Low Band measured at
850 MHz

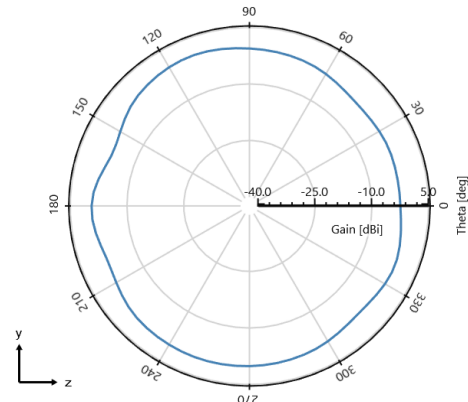
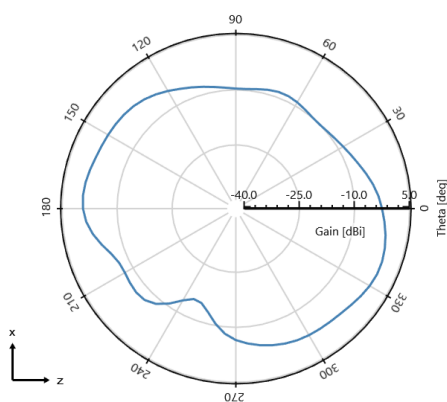
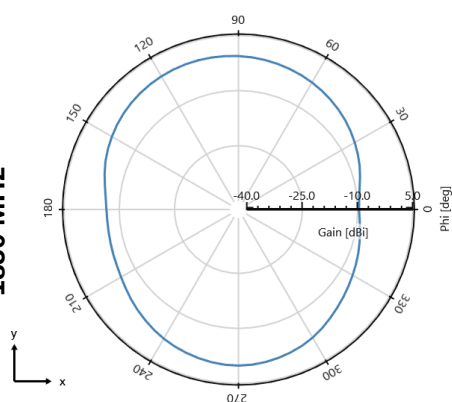


Low Band measured at
900 MHz



Antenna Radiation Patterns – Mid Band

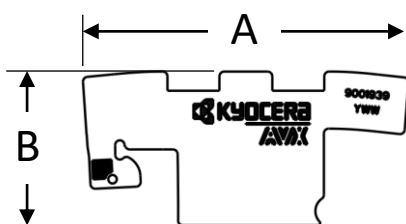
Low Band measured at
1850 MHz



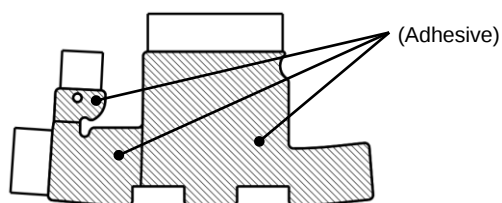
Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	Thickness (mm)
9001939	34.5 ± 0.3	16.3 ± 0.3	$0.2 \pm 10\%$



Top View



Bottom View