

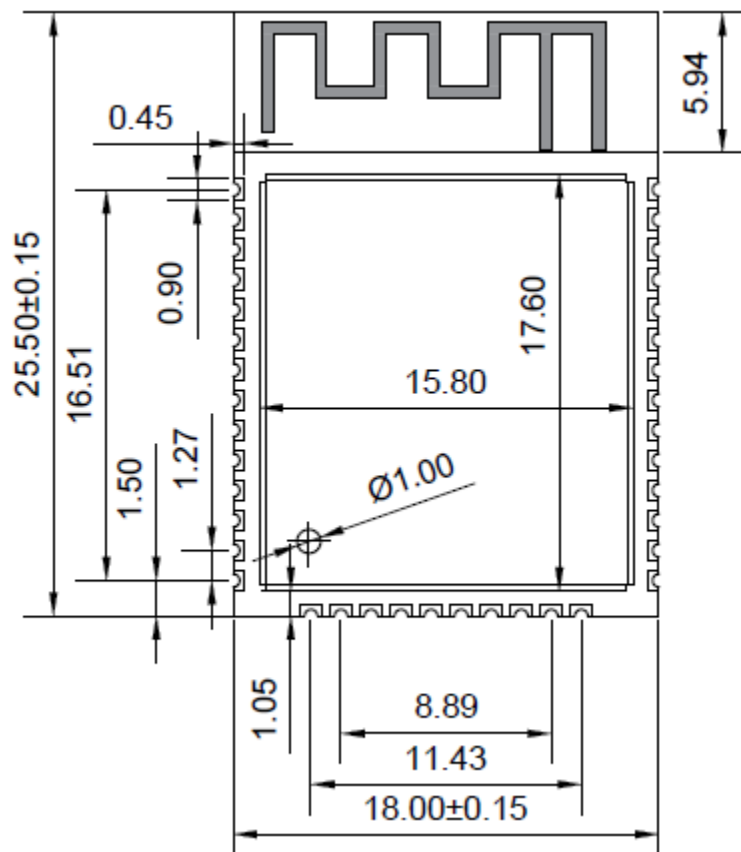
Datecs EP-700/EP-700 MX

1. WiFi + BT Antenna

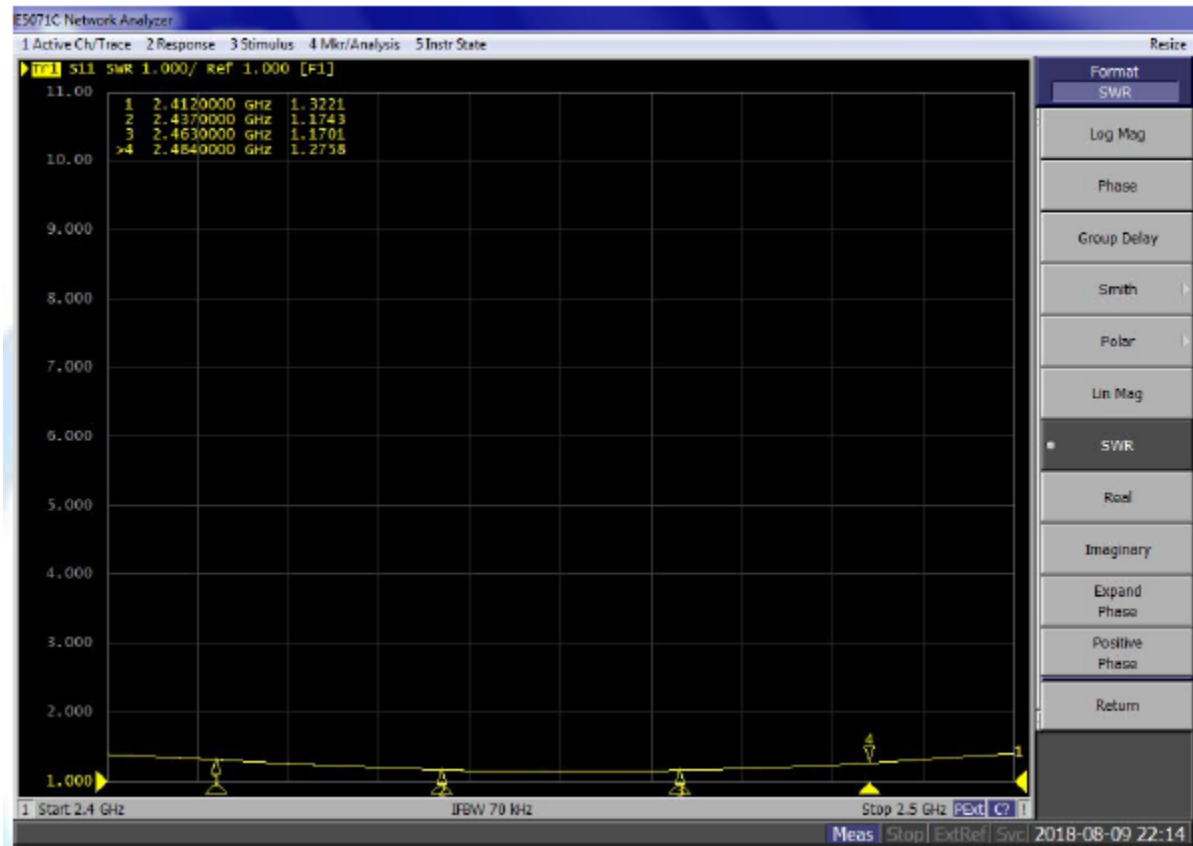
1.1 Specifications

Specifications	
Transmitting frequency	2400.0MHz-2500.0MHz
Receiver frequency	2400.0MHz-2500.0MHz
Impedance	50 Ohm
Antenna type	PCB
Antenna gain	+3.4 dBi

1.2 Dimensions (Unit: mm)



1.3 Voltage Standing Wave Ratio (VSWR)



Frequency (MHz)	2412	2437	2463	2484
VSWR	1.32	1.17	1.17	1.28

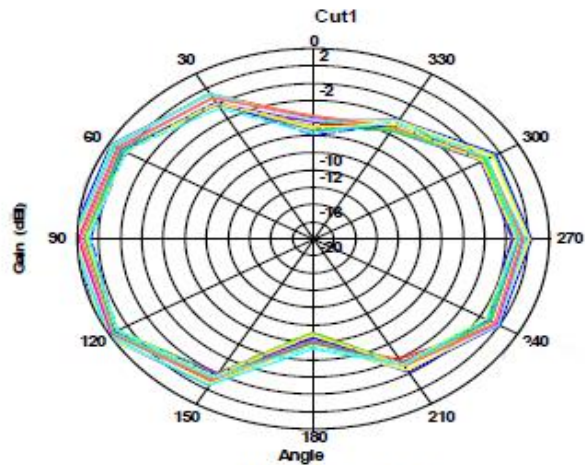
1.4 Antenna S11



Frequency (MHz)	2412	2437	2463	2484
S11(dB)	-17.07	-21.64	-22.52	-18.51

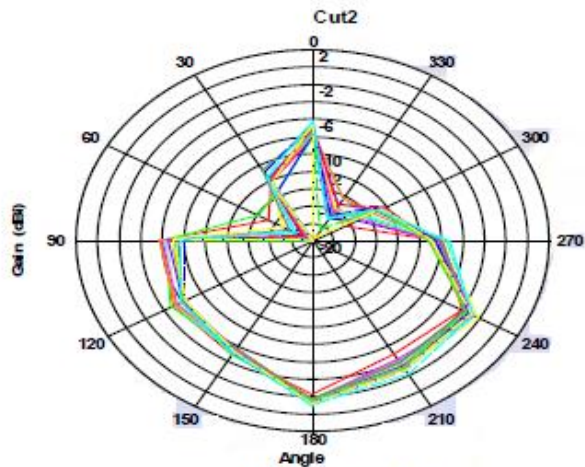
1.5 Gain and Efficiency

Test Item	Test State	Frequency (MHz)	Efficiency (%)	Gain (dBi)
Gain	Free Space	2412	73.79	2.39
		2417	77.04	2.97
		2422	79.83	2.80
		2427	81.19	2.89
		2432	80.54	3.40
		2437	76.86	2.86
		2442	76.17	2.99
		2447	73.99	2.96
		2452	72.00	2.80
		2457	70.71	2.72
		2462	71.31	2.94



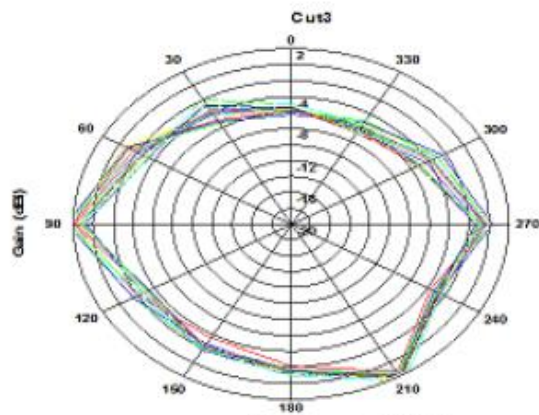
Max: 2
Min: -20
Scale: 2/div

Horizontal X-Y



Max: 2
Min: -20
Scale: 2/div

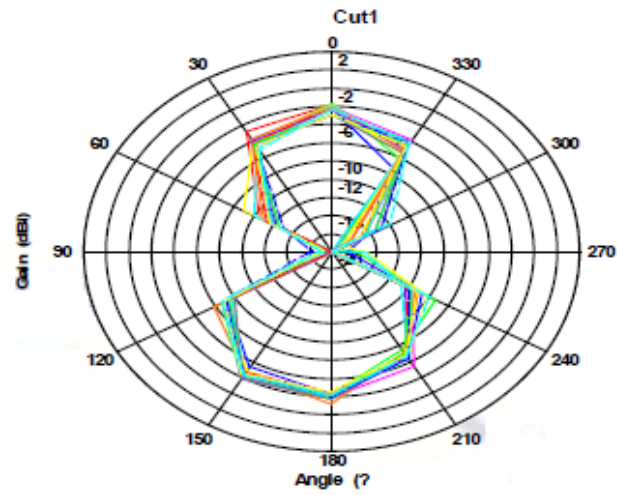
Horizontal X-Z



Max: 2
Min: -20
Scale: 2/div

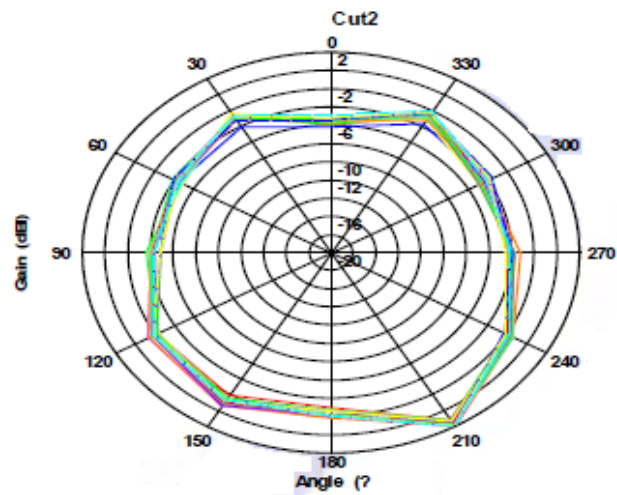
Horizontal Y-Z





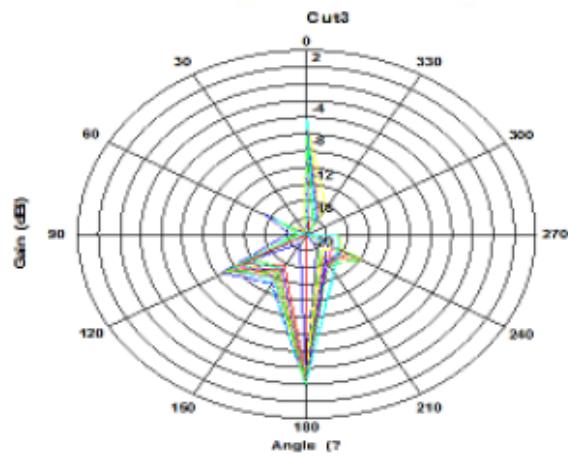
Vertical X-Y

2412 MHz
2417 MHz
2422 MHz
2427 MHz
2432 MHz
2437 MHz
2442 MHz
2447 MHz
2452 MHz
2457 MHz
2462 MHz
2467 MHz
2472 MHz
2477 MHz
2482 MHz



Vertical X-Z

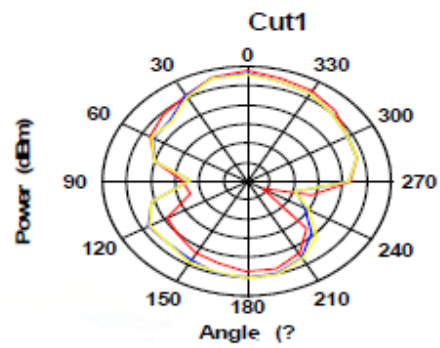
2412 MHz
2417 MHz
2422 MHz
2427 MHz
2432 MHz
2437 MHz
2442 MHz
2447 MHz
2452 MHz
2457 MHz
2462 MHz
2467 MHz
2472 MHz
2477 MHz
2482 MHz



Vertical Y-Z

2412 MHz
2417 MHz
2422 MHz
2427 MHz
2432 MHz
2437 MHz
2442 MHz
2447 MHz
2452 MHz
2457 MHz
2462 MHz
2467 MHz
2472 MHz
2477 MHz
2482 MHz

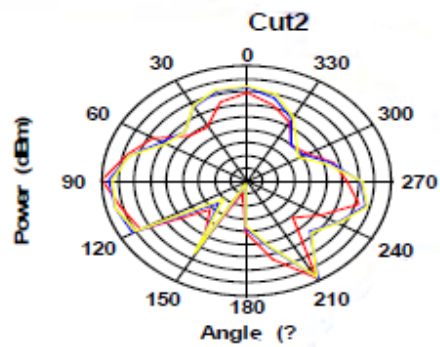
Max: 5
Min: -25
Scale: 5/div



Horizontal X-Y

2400 MHz
2490 MHz
2500 MHz

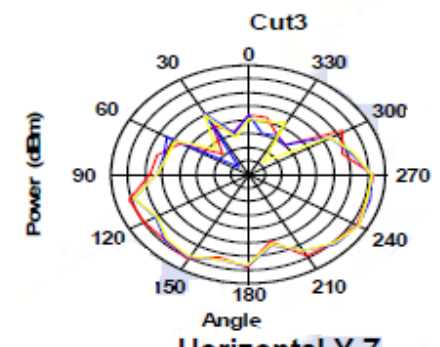
Max: 4
Min: -14
Scale: 2/div



Horizontal X-Z

2400 MHz
2490 MHz
2500 MHz

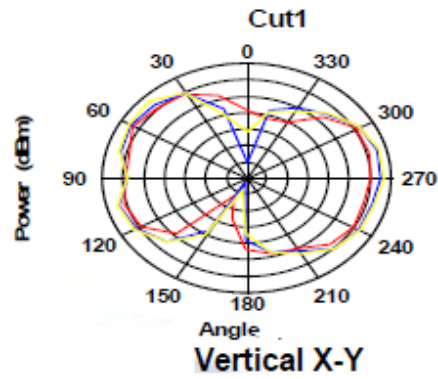
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Scale: 5/div



Horizontal Y-Z

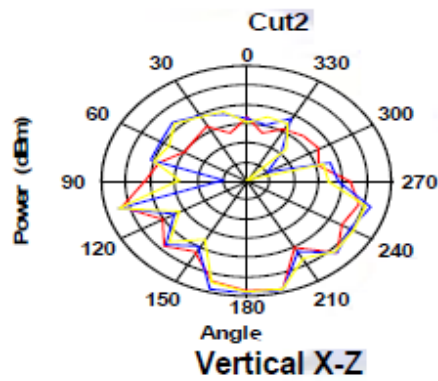
2400 MHz
2490 MHz
2500 MHz

Max: 0
Min: -35
Scale: 5/div



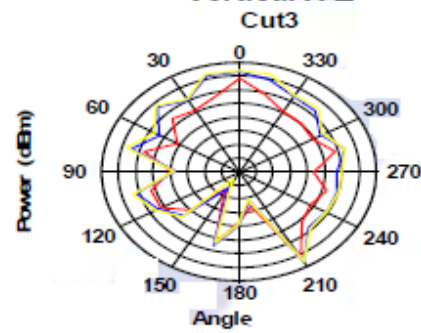
2400 MHz
2490 MHz
2500 MHz

Max: -5
Min: -35
Scale: 5/div



2400 MHz
2490 MHz
2500 MHz

Max: 2
Min: -14
Scale: 2/div



2400 MHz
2490 MHz
2500 MHz

Manufacturer: Espressif Systems

Address: #101, Block 2, 690 Bibo Road, Zhang Jiang High-Tech Park, Shanghai, China