

Antenna

The Most Appropriate Antenna for Your Design!

Customer : YAMAHA

Specification for Approval
Dipole antenna and RF Cable

ADVANCED-CONNECTEK INC.
Wireless Communications BU.
2017/6/22



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1. Antenna and Cable Description



2. Technical Specifications

Antenna

Application Band	2400MHz~2500MHz
	5150MHz~5850MHz
Operating temperature range	-20~+80℃
S.W.R.	<2.0
Antenna Peak Gain without RF Cable	2.4Ghz band 3.24 dBi Max
	5.0Ghz band 4.54 dBi Max
Efficiency	>50%
Impedance	50 Ohm
Polarization / Azimuth	Linear / Omni-directional
Coaxial Cable	50 Ohm / O.D 1.78mm

2. Technical Specifications

RF Cable

Frequency	1~6GHz
Operating temperature range	-20~+80℃
Insertionloss (500mm)	2.4GHz~2.5GHz 1.34dB Min
	5.15~5.85GHz 1.93dB Min
Coaxial Connector	50 Ohm RPSMA-BJ-1.37AS(Au)
	I-PEX MHF1.37

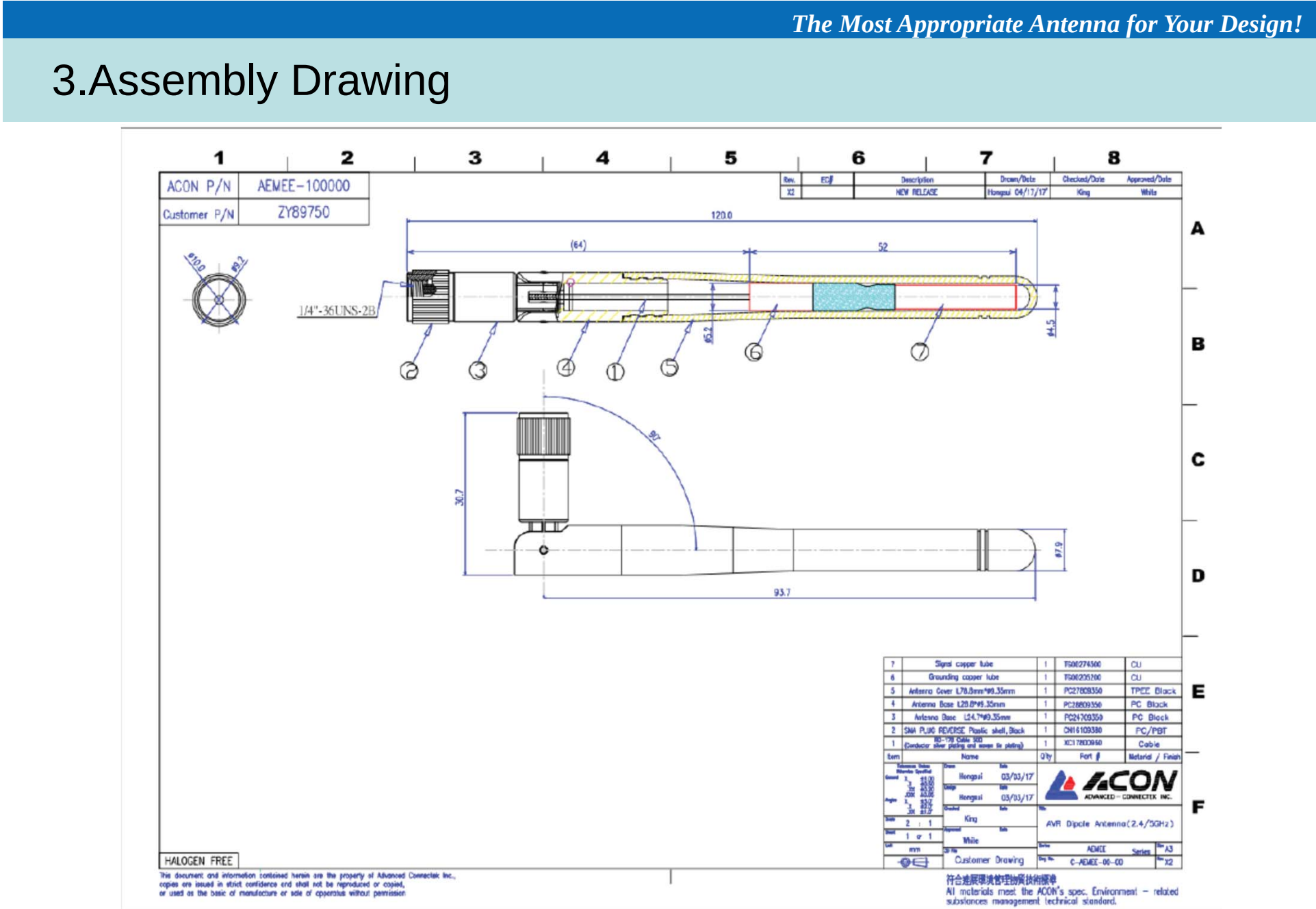
2. Technical Specifications

Peak GAIN Specification (Cable Color Gray)	2.4GHz Band GAIN(dBi) MAX	5GHz Band GAIN(dBi) MAX
Antenna without RF CABLE AEMEE-10000	3.24	4.54
Antenna with 30mm RF CABLE AEMEE-10000+AEC8P-100000	3.16	4.42
Antenna with 50mm RF CABLE AEMEE-10000+AEC8P-100002	3.11	4.35
Antenna with 70mm RF CABLE AEMEE-10000+AEC8P-100004	3.05	4.27
Antenna with 90mm RF CABLE AEMEE-10000+AEC8P-100006	3.00	4.19
Antenna with 120mm RF CABLE AEMEE-10000+AEC8P-100008	2.92	4.08
Antenna with 160mm RF CABLE AEMEE-10000+AEC8P-100010	2.81	3.92
Antenna with 200mm RF CABLE AEMEE-10000+AEC8P-100012	2.70	3.77
Antenna with 240mm RF CABLE AEMEE-10000+AEC8P-100014	2.60	3.61
Antenna with 280mm RF CABLE AEMEE-10000+AEC8P-100016	2.49	3.46
Antenna with 320mm RF CABLE AEMEE-10000+AEC8P-100018	2.38	3.30
Antenna with 360mm RF CABLE AEMEE-10000+AEC8P-100020	2.28	3.15
Antenna with 400mm RF CABLE AEMEE-10000+AEC8P-100022	2.17	3.00
Antenna with 450mm RF CABLE AEMEE-10000+AEC8P-100024	2.03	2.80
Antenna with 500mm RF CABLE AEMEE-10000+AEC8P-100026	1.90	2.61

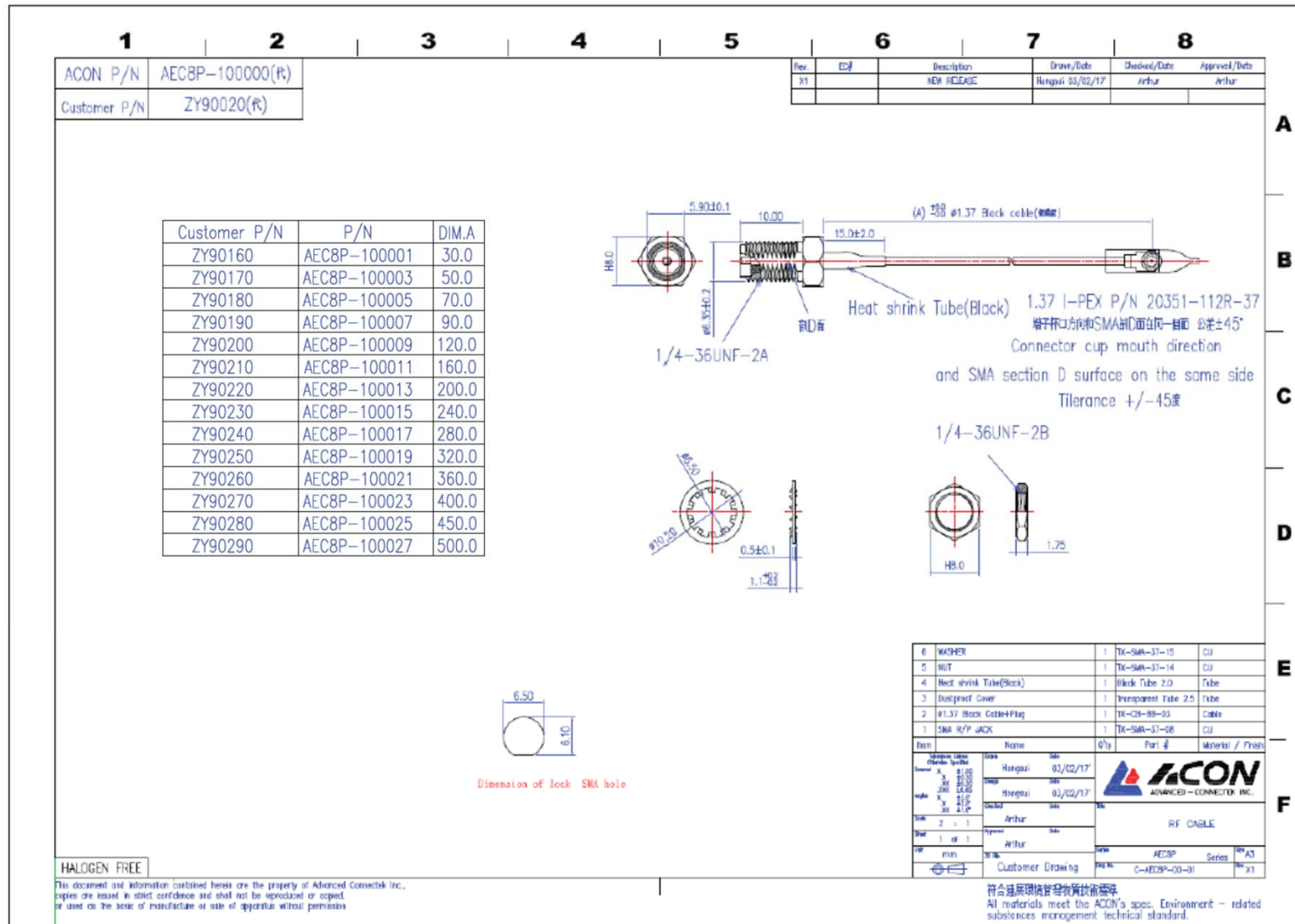
2. Technical Specifications

Peak GAIN Specification (Cable Color Black)	2.4GHz Band GAIN(dBi) MAX	5GHz Band GAIN(dBi) MAX
Antenna without RF CABLE AEMEE-10000	3.24	4.54
Antenna with 30mm RF CABLE AEMEE-10000+AEC8P-100001	3.16	4.42
Antenna with 50mm RF CABLE AEMEE-10000+AEC8P-100003	3.11	4.35
Antenna with 70mm RF CABLE AEMEE-10000+AEC8P-100005	3.05	4.27
Antenna with 90mm RF CABLE AEMEE-10000+AEC8P-100007	3.00	4.19
Antenna with 120mm RF CABLE AEMEE-10000+AEC8P-100009	2.92	4.08
Antenna with 160mm RF CABLE AEMEE-10000+AEC8P-100011	2.81	3.92
Antenna with 200mm RF CABLE AEMEE-10000+AEC8P-100013	2.70	3.77
Antenna with 240mm RF CABLE AEMEE-10000+AEC8P-100015	2.60	3.61
Antenna with 280mm RF CABLE AEMEE-10000+AEC8P-100017	2.49	3.46
Antenna with 320mm RF CABLE AEMEE-10000+AEC8P-100019	2.38	3.30
Antenna with 360mm RF CABLE AEMEE-10000+AEC8P-100021	2.28	3.15
Antenna with 400mm RF CABLE AEMEE-10000+AEC8P-100023	2.17	3.00
Antenna with 450mm RF CABLE AEMEE-10000+AEC8P-100025	2.03	2.80
Antenna with 500mm RF CABLE AEMEE-10000+AEC8P-100027	1.90	2.61

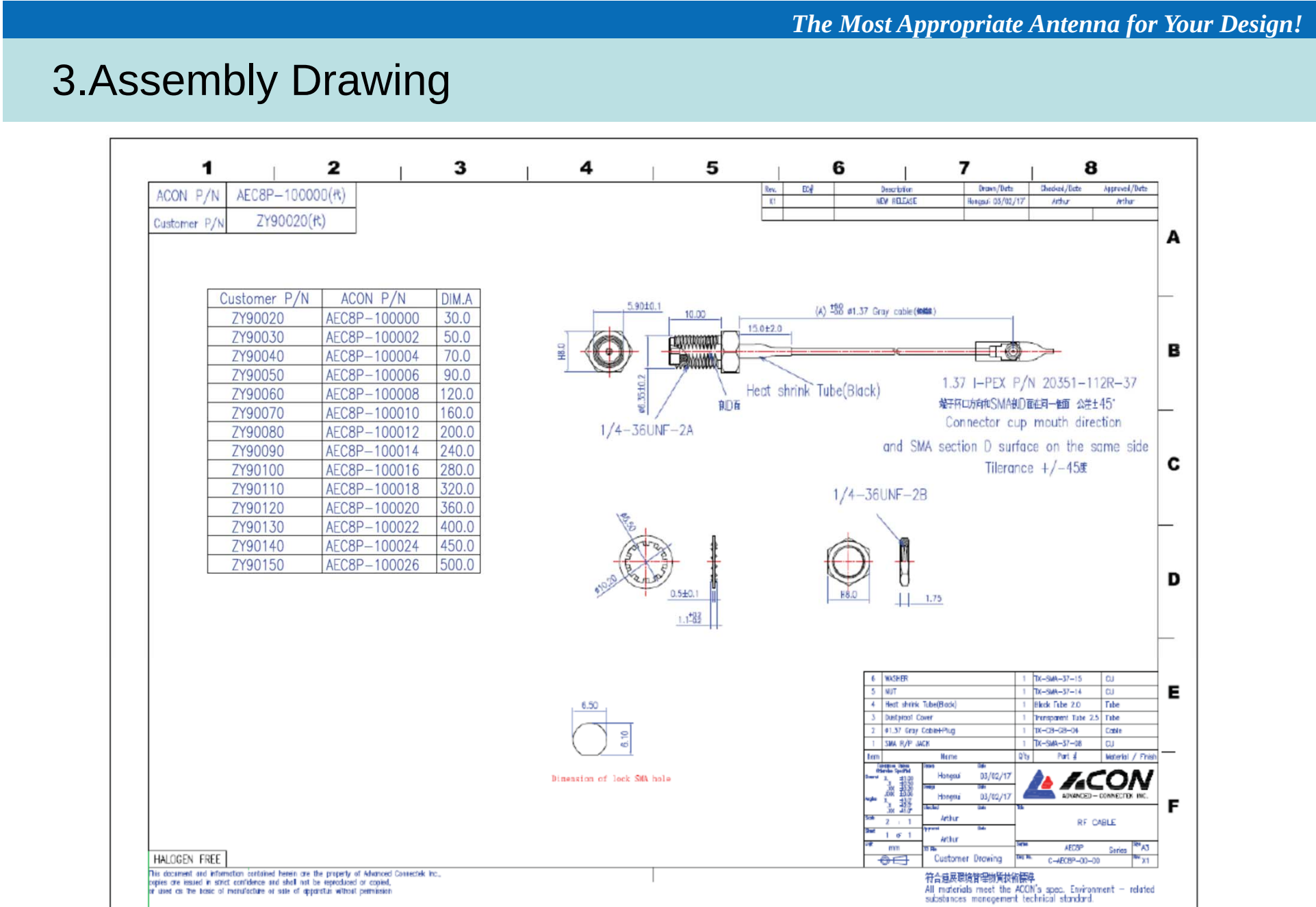
3.Assembly Drawing



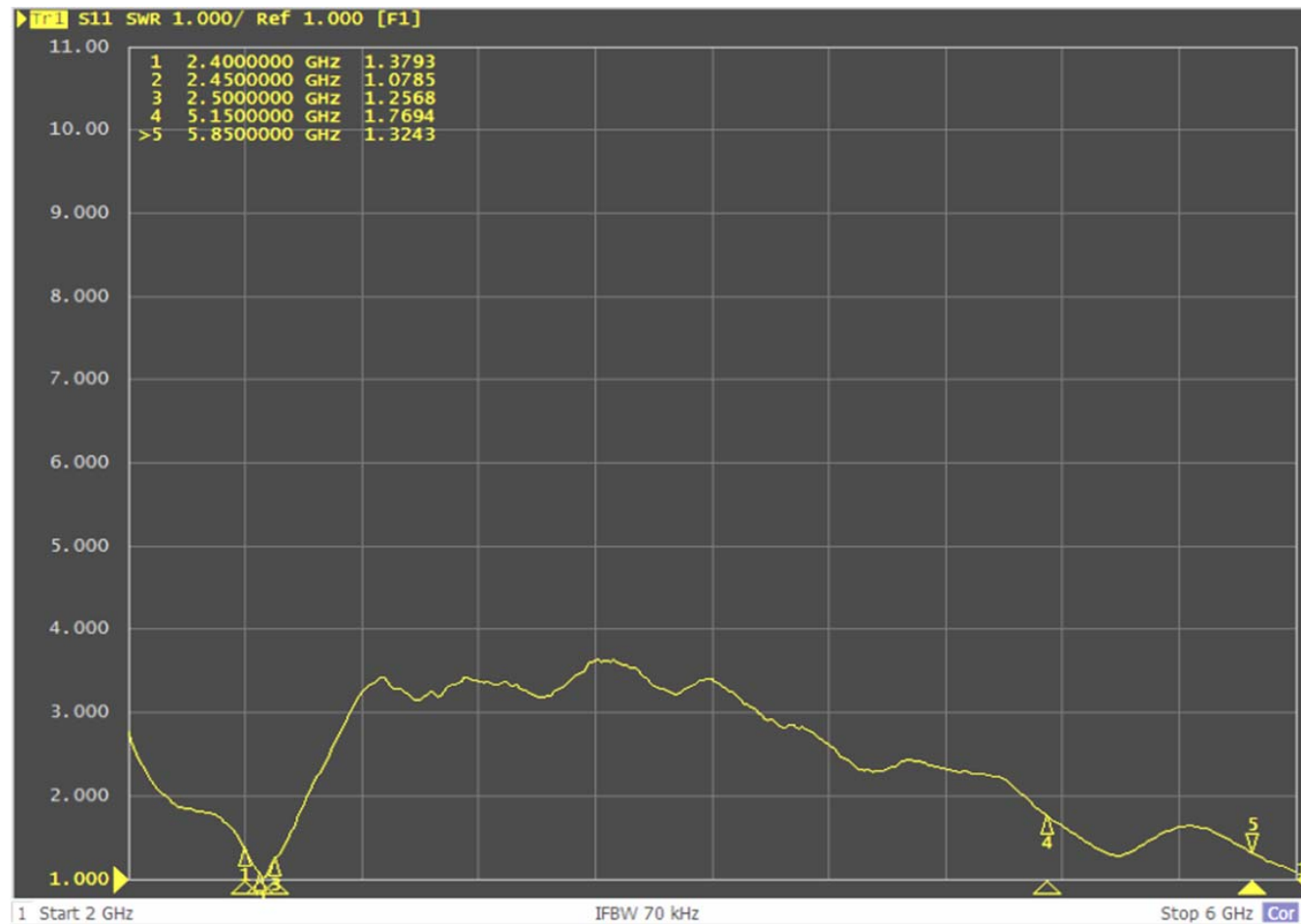
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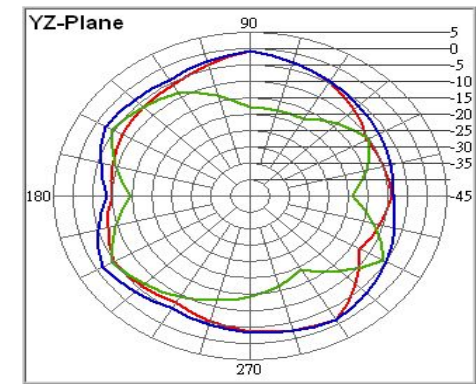
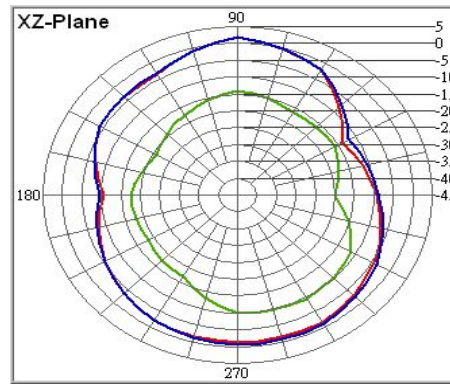
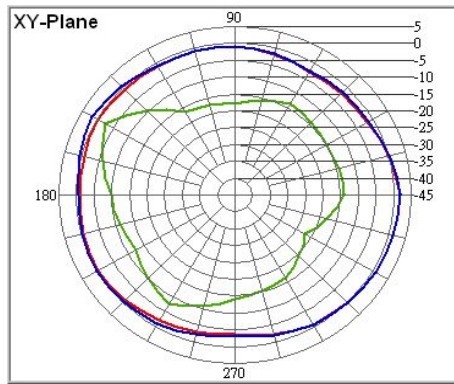


4. Performance Data : S.W.R (Without RF Cable)



4. Performance Data : Pattern (Without RF Cable)

2450MHz



5350MHz

