



MATSING[®]

LENS TECHNOLOGY ENABLED

Matsing Products

Rev 03032021



Matsing Product Line

Large Sphere
Models



MBA Series
Models



Light Pole
Models



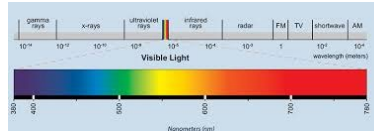
Single Beam
Models



Hybrid
Models
(Future)



Matsing Supported Frequencies



T Band
617-896MHz

L Band
698-960MHz

H Band
1695-2690MHz

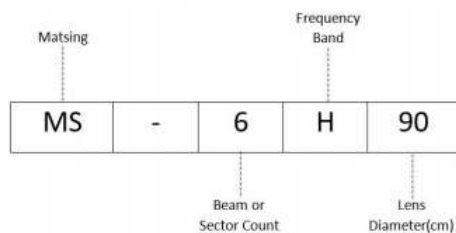
SH Band
2300-3600MHz
(2300-2400MHz and
3400-3600MHz)

F Band
3300-4200MHz

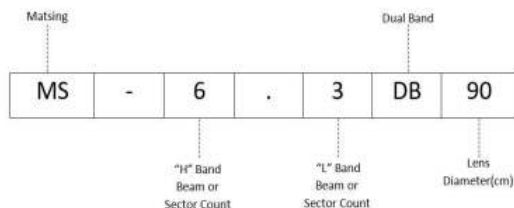
C Band
3700-3980MHz

LAA Band
5000-6000MHz

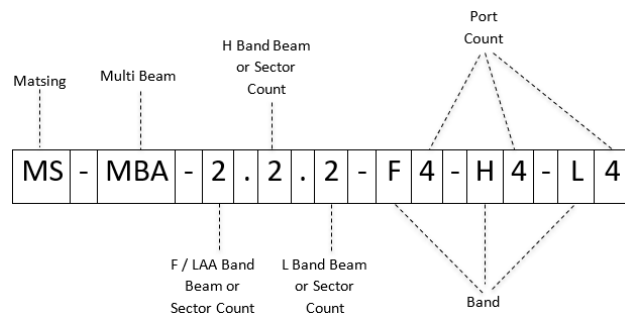
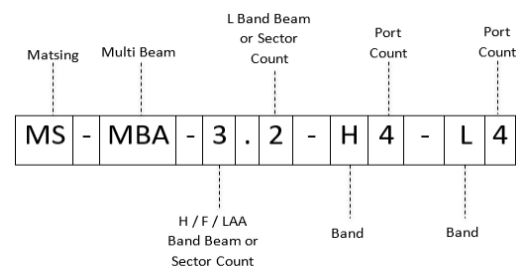
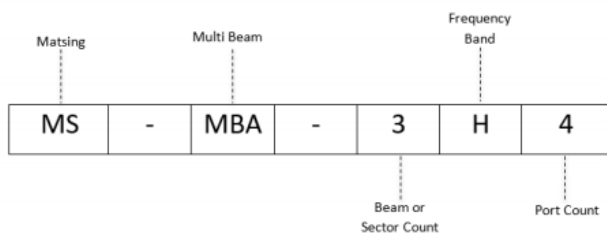
Matsing Model # Nomenclature



Single Band Antenna Models



Dual Band Antenna Models



Large Sphere Models (Single Band)

MS-6T180

MS-8T120

MS-12T180

MS-6L180

MS-8L120

MS-12L180

MS-12H90

MS-4H60

MS-6H90

MS-8H120

MS-8H60

MS-9H90-
FWB-2.3

MS-9SH90-
FWB

MS-12H180

MS-16H120

MS-18H90

MS-24H180

MS-48H180

MS-3.3-F4

MS-8F60

MS-12F45

MS-18F45

MS-24F90

MS-48F90



Large Sphere Models (Dual Band)

MS-4.2DB60-T

MS-6.3DB90-T

MS-8.4DB120-T

MS-12.6DB180-T

MS-10.10.10DBA180-T

MS-20.10DBA180-T

MS-4.2DB60

MS-6.3DB90

MS-8.4DB120

MS-12.6DB180

MS-10.10.10DBA180

MS-20.10DBA180



MBA Models (Single Band)

MS-MBA-1-T4

MS-MBA-2-T2

MS-MBA-2

MS-MBA-2-L2

MS-MBA-2-L4

MS-MBA-3-H4

MS-MBA-8

MS-MBA-3-F2

MS-MBA-3-F4

MS-MBA-3-F4A3

MS-MBA-3-C4A3

MS-MBA-5-F2

MS-MBA-5-F4

MS-MBA-3-LAA2

MS-MBA-6-LAA2



MBA Models (Dual & Tri Band)

MS-MBA-3.2-H2-L2

MS-MBA-3.2-H2-T2

MS-MBA-3.2-H4-L4

MS-MBA-3.2-H4-T4

MS-MBA-3.2-H8-L4

MS-MBA-3.2-H8-T4

MS-MBA-4.2-H2-L2

MS-MBA-4.2-H2-T2

MS-MBA-3.3-LAA2-F4

MS-MBA-4.4.2-F2-H2-L2

MS-MBA-4.4.2-F4-H2-L2

MS-MBA-5.3-F2-H2

MS-MBA-5.3-F4-H4



Single Beam Models (Single Band)

MS-SB34-T

MS-SB-L

MS-SB34-L

MS-SB-H

MS-SB17-H

MS-SB23-H

MS-SB17-F

MS-SB23-F

MS-SB-LAA



Light Pole Models (Single Band)

MS-LP-6-H4

MS-LP-6-H4-30i

MS-LP-6-F4



T-Band Models

MS-SB34-T

MS-6T180

MS-8T120

MS-12T180

MS-MBA-1-T4

MS-MBA-2-T2

L-Band Models

MS-SB-L

MS-SB34-L

MS-12L180

MS-6L180

MS-8L120

MS-MBA-2-L2

MS-MBA-2-L4

H-Band Models

MS-12H180

MS-12H90

MS-16H120

MS-18H90

MS-24H180

MS-48H180

MS-4H60

MS-6H90

MS-8H120

MS-8H60

MS-9H90-FWB-
2.3

MS-9SH90-FWB

MS-LP-6-H4

MS-LP-6-H4-30i

MS-MBA-2

MS-MBA-3-H4

MS-MBA-8

MS-SB-H

MS-SB17-H

MS-SB23-H

F-Band Models

MS-12F45

MS-12F90

MS-16F60

MS-18F45

MS-24F90

MS-3.3-F4

MS-48F90

MS-4F30

MS-6F45

MS-8F30

MS-8F60

MS-LP-6-F4

MS-MBA-3-F2

MS-MBA-3-F4

MS-MBA-3-F4A3

MS-MBA-5-F2

MS-MBA-5-F4

MS-SB17-F

MS-SB23-F

C-Band Models

MS-MBA-3-C2

MS-MBA-3-C4

MS-MBA-3-C4A3

MS-MBA-5-C2

MS-MBA-5-C4

LAA-Band Models

MS-MBA-3-LAA2

MS-MBA-6-LAA2

MS-SB-LAA

H&T-Band Models

MS-10.10.10DBA180-T

MS-12.6DB180-T

MS-20.10DBA180-T

MS-4.2DB60-T

MS-6.3DB90-T

MS-8.4DB120-T

MS-MBA-3.2-H2-T2

MS-MBA-3.2-H4-T4

MS-MBA-3.2-H8-T4

MS-MBA-4.2-H2-T2

H&L-Band Models

MS-10.10.10DBA180

MS-12.6DB180

MS-20.10DBA180

MS-4.2DB60

MS-6.3DB90

MS-8.4DB120

MS-MBA-3.2-H2-L2

MS-MBA-3.2-H4-L4

MS-MBA-3.2-H8-L4

MS-MBA-4.2-H2-L2

F&H-Band Models

MS-MBA-5.3-F2-H2

MS-MBA-5.3-F4-H4

F&H&L-Band Models

MS-MBA-4.4.2-F2-H2-L2

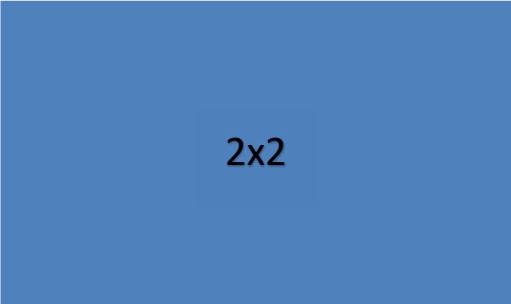
MS-MBA-3.3.2-F2-H2-L2

MS-MBA-4.4.2-F4-H2-L2

LAA&F-Band Models

MS-MBA-3.3-LAA2-F4

MIMO Capability



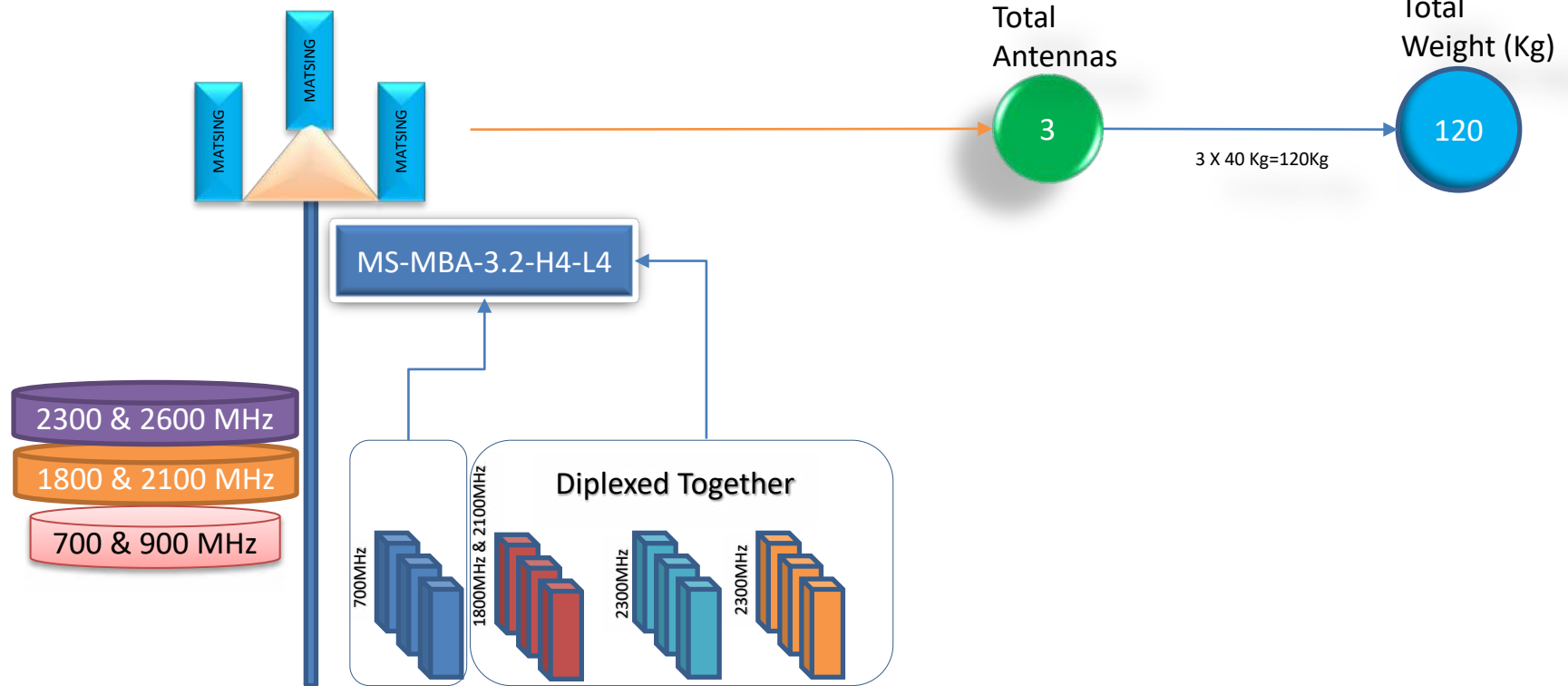
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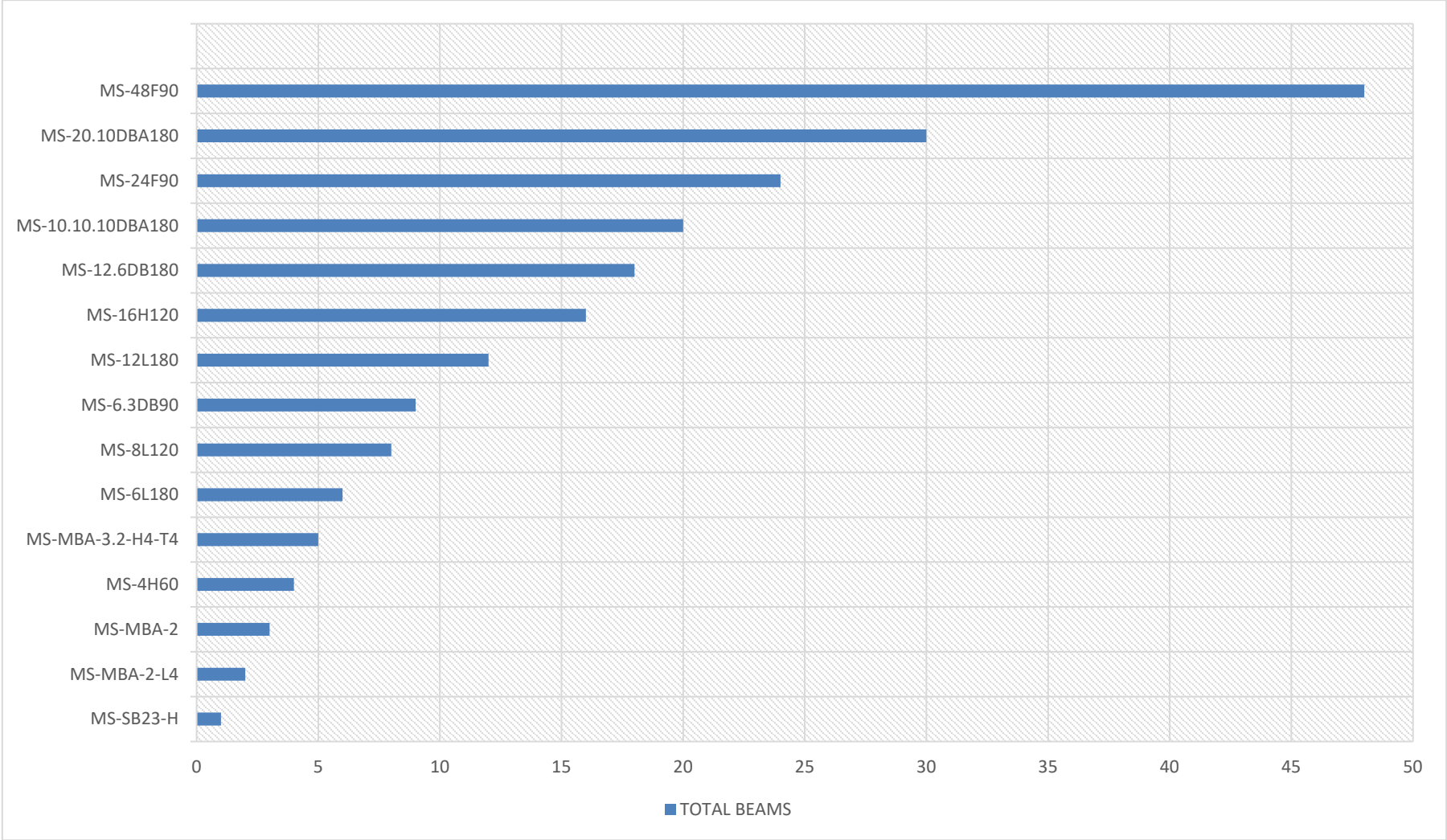
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Weight Comparison b/w Traditional & Matsing Macro Antennas

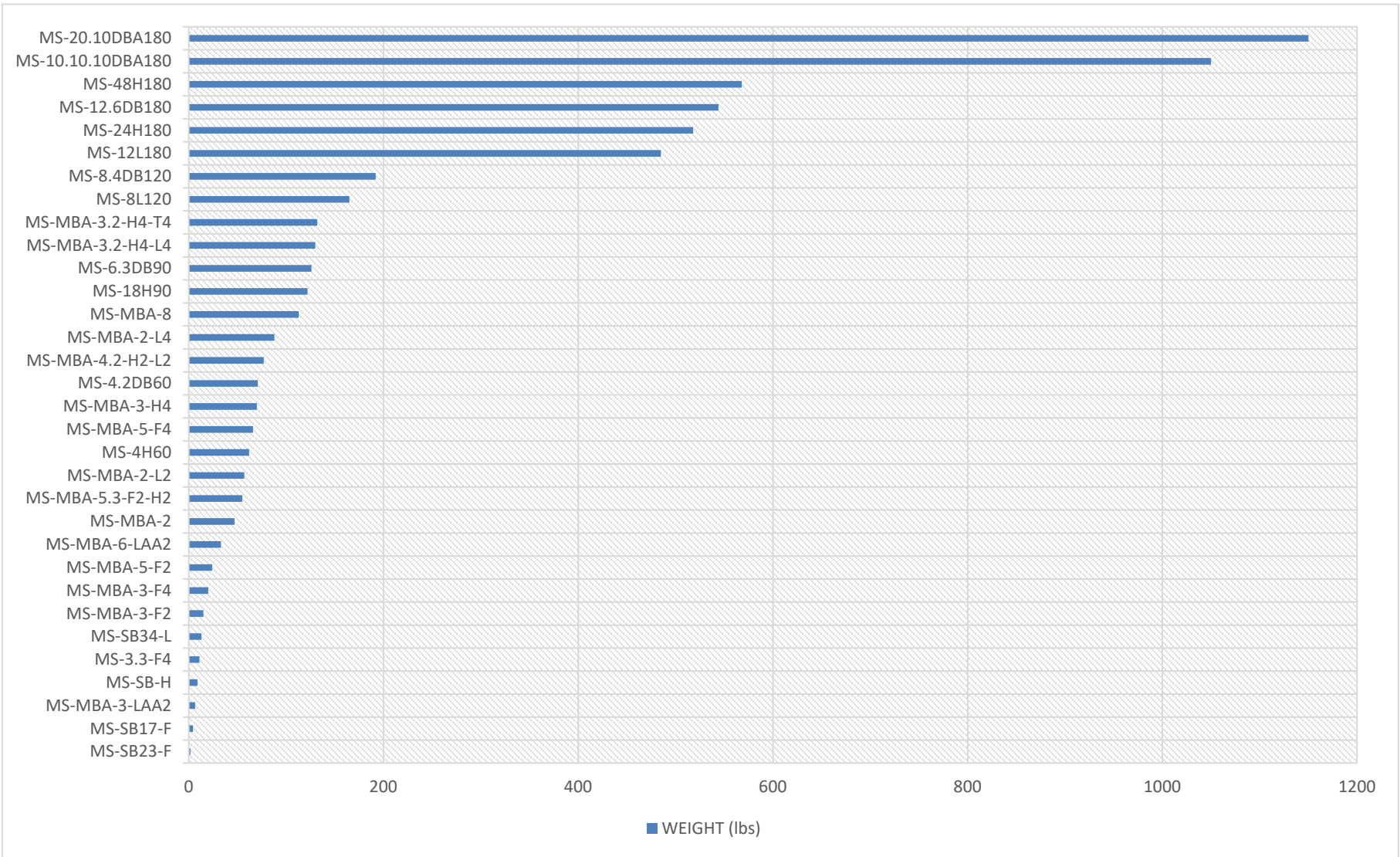
Example;
MS-MBA-3.2-H4-L4



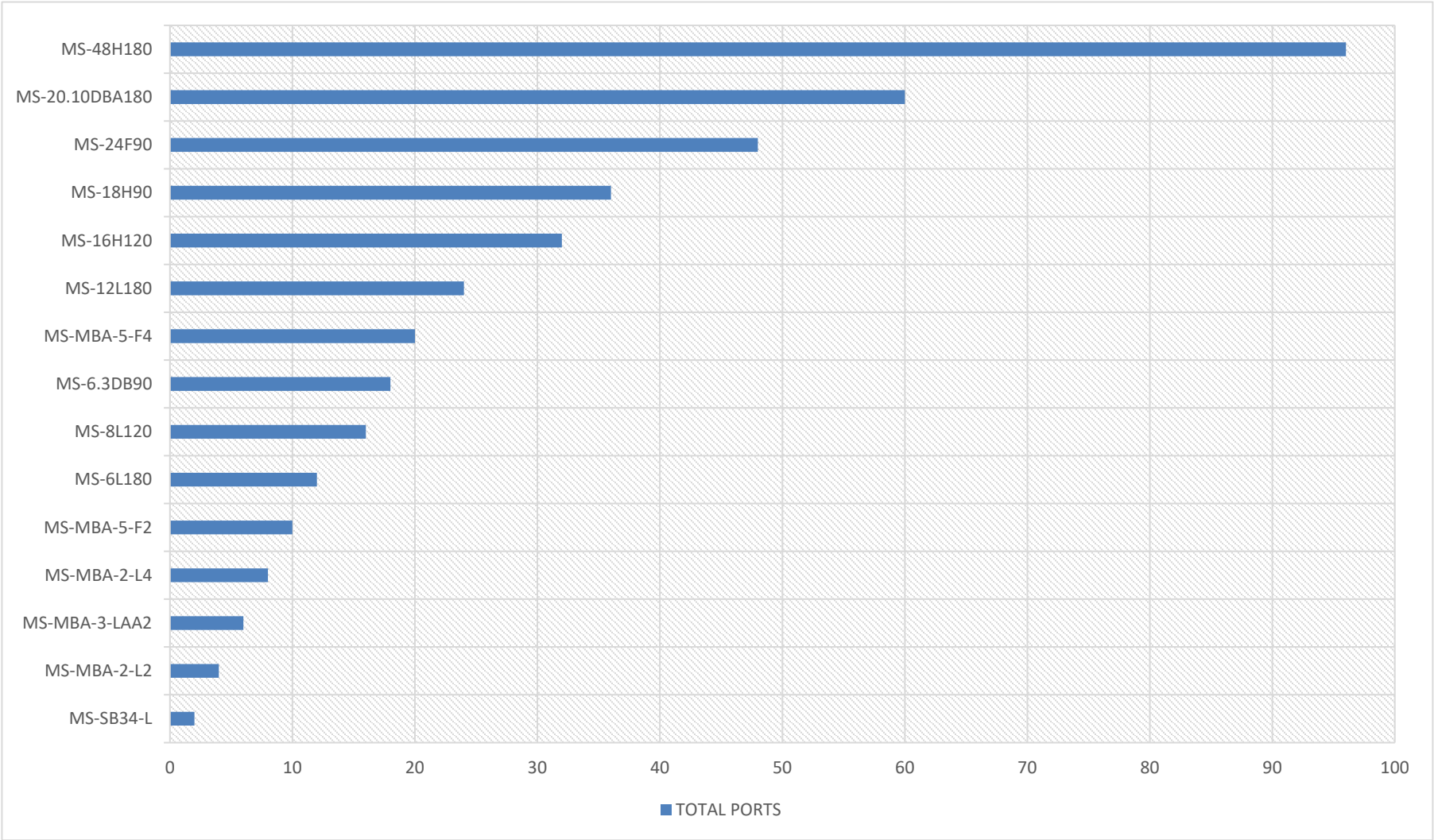
Beam Variety



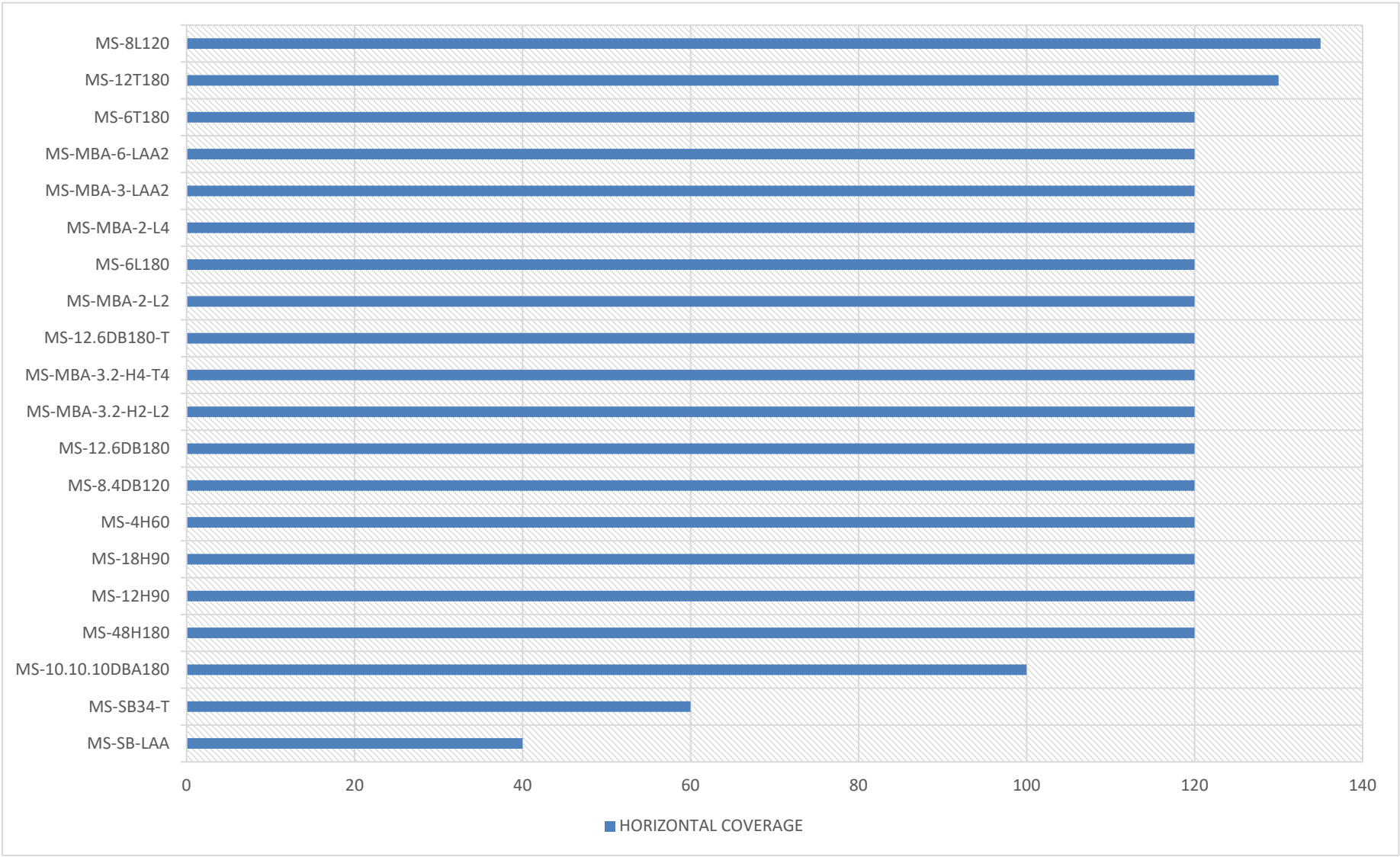
Weight Variety



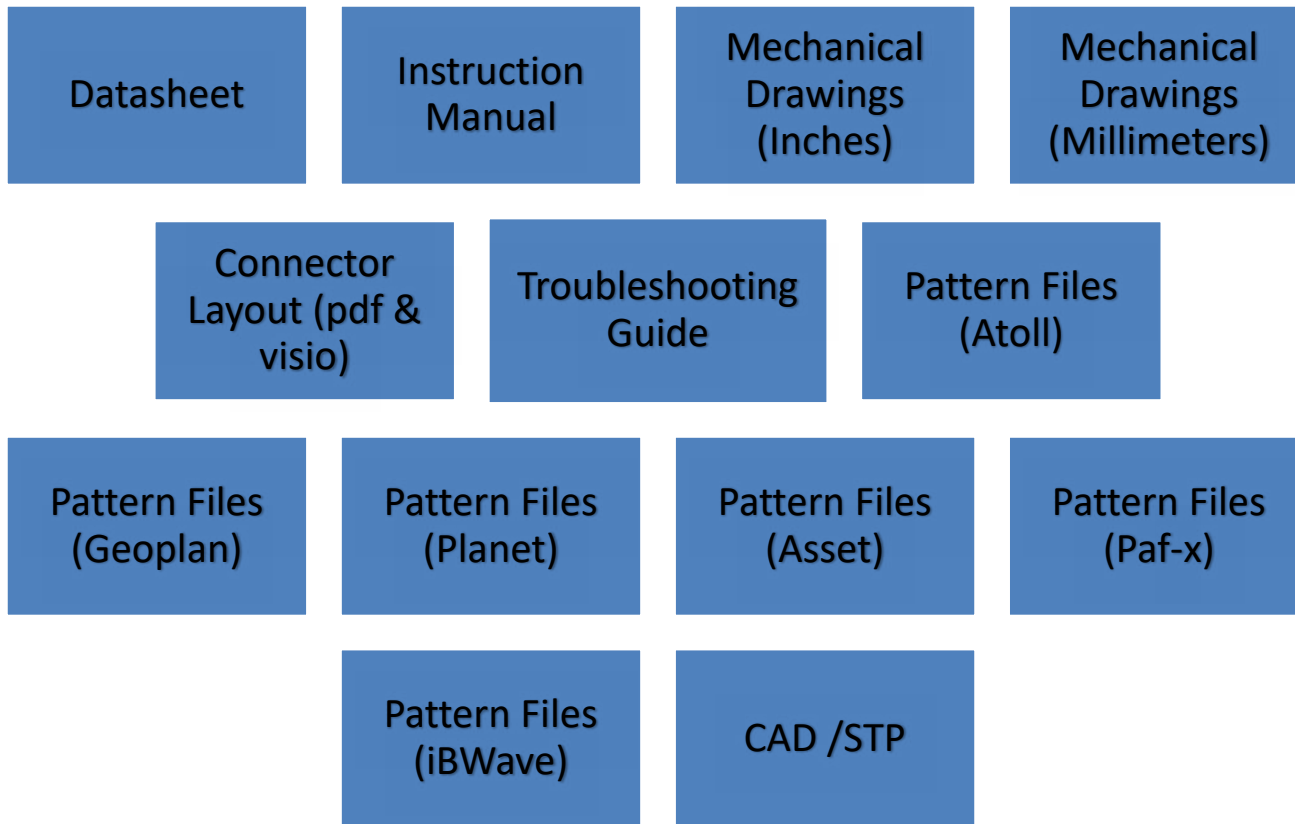
Port Variety



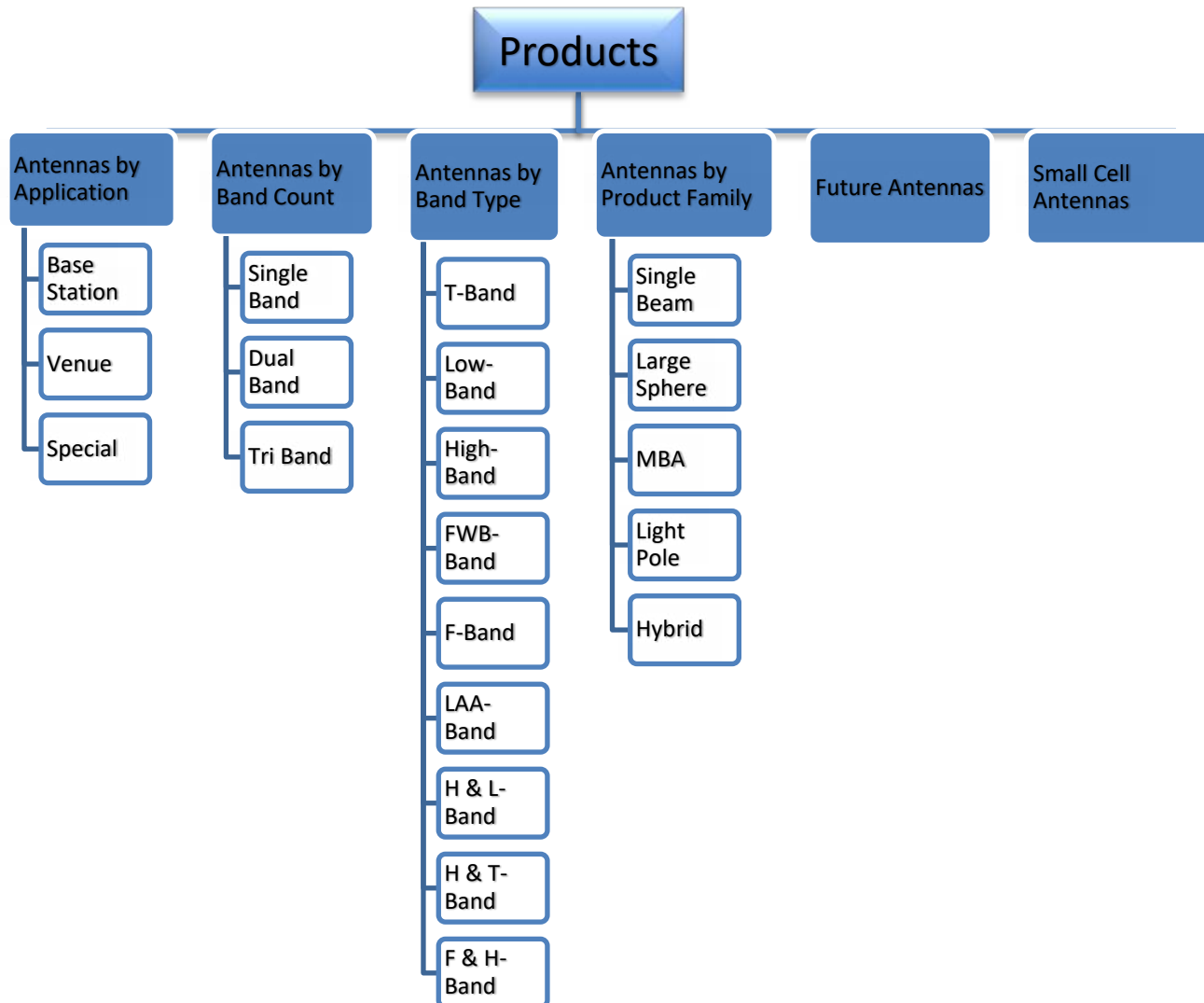
Horizontal Coverage / Sample



Antenna Documentation



Matsing Website



Matsing Support

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3.5GHz Products

- Globally there is activity at 3.5GHz
- Matsing has developed several products to address 3.5GHz:
 - 3 Beam with 3 element vertical array for narrower vertical beam width and slightly higher gain MS-MBA-3-C4A3 and MS-MBA-3-F4A3. These models utilize patent pending design for improved horizontal side lobe reduction. 3 Beam with 5 element vertical array in R&D.
 - Complimentary models matching High Band models i.e. MS-48H180 is matched with MS-48F90. Each model matches beam footprint and utilizes a spherical lens half diameter i.e. 180/90
- 3 beam is proving to be higher capacity solution than beam former so 3 beam can be offered to provide capacity relief to overloading beamforming sites.

- Several venues have been equipped with lens design so post pandemic will provide KPIs proving lens is best!
- Expect uptick in venue activity.
- Typical proposal turn around within one week (no iBwave predictions):
 - Antenna placement,
 - Antenna list,
 - Budgetary quote,
 - Proposals managed by Tony DeMarco
- Matsing will support first time user design when following conditions are present:
 - Suitable iBwave file is provided to us,
 - Funding for project confirmed,
 - Commitment from customer to follow through with deployment of lens design if design is proven to be best performance,
 - Venue management confirms antenna placement 'go and no-go' locations.