SECURITY SUMMARY & SPECIAL HANDLING REQUIREMENTS

The title of this application is : AN/APS-152(V)1, (V)2 & AN/APS-148, SEAVIEW RADAR

The overall classification of this application is : **UNCLASSIFIED**

Refer to your Security Manual for further guidance.

The Application Level Special Handling is : A

Approved for public release; distribution is unlimited (DoD Directive 5230.24)

DOWNGRADING INSTRUCTIONS

Special Handling Instruction : A

CLASSIFICATION **UNCLASSIFIED**

FULL RECORD PRINT FOR AN/APS-152(V)1, (V)2 & AN/APS-148, SeaView Radar

Selected Frequencies
(U) 9600.0 MHz

System Name (Nomenclature) : (U) AN/APS-152(V)1, (V)2 & AN/APS-148, SeaView Radar
Coord.ID/JF12 Num. : (U)/(U) J/F 12/9802
Stage : (U) 2 - Experimental
Agency : (U) N - Department of the Navy
NTIA Certified : (U) No
Overall Security : Unclassified

Date/Time Last Mod. : 8/3/2010 6:37:00 PM (GMT)
System Description : (U) Provides intermediate and long range detection, surveillance and tracking of small and large sea surface targets in sea clutter conditions to ranges in excess of 200 nautical miles.

Provides land mass and shore line detection for navigation purposes; imaging of sea surface contacts for classification using Inverse Synthetic Aperture Radar (ISAR) techniques; imaging of land & littoral regions using Synthetic Aperture Radar (SAR) techniques. SAR is only used by the AN/APS-152(V)1.

Sysfem also provides user enabled Track While Scan (TWS) capabilities in the primary sea surface surveillance modes (Search I and Search II) and weather detection.

Target Date(s)
System Approval : (U) 9/1/2010
System Activation : (U) 9/1/2010
System Termination : (U) 9/1/2035

NSEP Use : (U) Yes
ITU Waiver : (U) No

Control Numbers
SPS- 17317/2

Source Documents
• (U) SPS - 17317/2 AN/APS-152(V)1, (V)2 & AN/APS-148, SeaView Radar Certification Application 8/3/2010

Geographic Areas for Stage 2
City, State/Country : (U) San Diego Naval Station, (U) CA
Location Type : (U) Polygon of 8 points

City, State/Country : (U) Homestead Air Force Base, (U) FL
Location Type : (U) Polygon of 18 points

City, State/Country : (U) Jacksonville, (U) Florida
Location Type : (U) Single Point
Lat/Lon : (U) 302005N0813927W

City, State/Country : (U) Barking Sands Pacific Missile , (U) HI
Location Type : (U) Polygon of 25 points

City, State/Country : (U) Naval Air Station, Patuxent Ri, (U) MD
Location Type : (U) Polygon of 18 points

City, State/Country : (U) Greenville, (U) South Carolina
Location Type : (U) Single Point
Lat/Lon : (U) 345020N0822217W

City, State/Country : (U) Corpus Christi, (U) Texas
Location Type : (U) Single Point
Lat/Lon : (U) 274121N0971735W

City, State/Country : (U) Fort Worth, (U) Texas
Location Type : (U) Single Point
Lat/Lon : (U) 324515N0972012W

City, State/Country : (U) McKinney, (U) Texas
Location Type : (U) Single Point
Lat/Lon : (U) 331204N0963919W

City, State/Country : (U) Waco, (U) Texas
Location Type : (U) Single Point
Lat/Lon : (U) 313409N0971101W

City, State/Country : (U) Kaneohe, (U) Hawaii
Location Type : (U) Single Point
Lat/Lon : (U) 212429N1574723W

City, State/Country : (U) Table Mountain Open Area Test , (U) Table Mountain Open Area Test Site (OATS), CO
Location Type : (U) Single Point
Lat/Lon : (U) 400800N1051500W

Number Of Units : (U) 7
Estimated Initial Cost of the System : (U) $1500000
Information Transfer Requirement
(U) Pulse Compression and Unmodulated Radar Pulses

System Essentiality
(U) Maritime Search Radar

Replacement Information
(U) NA

Stations
Station Name : (U) AN/APS-152(V)1, (V)2 & AN/APS-148
Transmitters

(U) AN/APS-152(V)1, (V)2 & AN/APS-148

Receivers
(U) AN/APS-152(V)1, (V)2 & AN/APS-148

Antennas
(U) AN/APS-152(V)1, (V)2 & AN/APS-148

Station Name : (U) Target - Generic

Links - Selected Modes

Link

Transmitting Station	Receiving Station
(U) AN/APS-152(V)1, (V)2 & AN/APS-148	(U) Target

Radio Service : Radiodetermination
Station Class : MR
Equipment Combination
Transmitter : (U) AN/APS-152(V)1, (V)2 & AN/APS-148
Tx Antenna : (U) AN/APS-152(V)1, (V)2 & AN/APS-148
Receiver : (U) AN/APS-152(V)1, (V)2 & AN/APS-148
Rx Antenna : (U) AN/APS-152(V)1, (V)2 & AN/APS-148
Selected Modes

Frequency	Em. Des	Power	Notes
(U) 9600.0 MHz	(U) 411KP0N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 820KP0N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 1M62P0N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 3M17P0N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 9M13Q1N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 6M08Q1N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 225MQ3N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 87M0Q3N	Peak (U) 50000 W	PRI
(U) 9600.0 MHz	(U) 6M08P0N	Peak (U) 50000 W	PRI

TRANSMITTER AN/APS-152(V)1, (V)2 & AN/APS-148

Nomenclature : (U) AN/APS-152(V)1, (V)2 & AN/APS-148
Manufacturer : (U) RAYTHEON CO. OR RAYTHEON MANUFACTURING CO.
Model Name : (U) APS-152(V)1, APS-148, SEA VIEW RADAR
NTIA Approval Status : (U) Unapproved
Date/Time Last Mod. : 6/30/2010 12:12:29 AM (GMT)
Coordination ID : (U) J/F 12
Fcc Acc. Number : (U) Not Applicable
Freq. Stability : (U) 22 ppm
Output Device : (U) Traveling Wave Tube
Tuning Method : (U) Fixed Crystal
Radar/Comm : (U) Radar
Supp. of Harmonics : (U) Yes

Figure 1 - 2nd Harmonic Curve (U)

Atten.	Offset (Fo)
-60.0 dB	0.00000 kHz

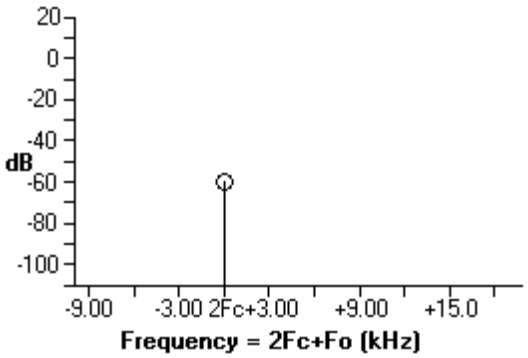

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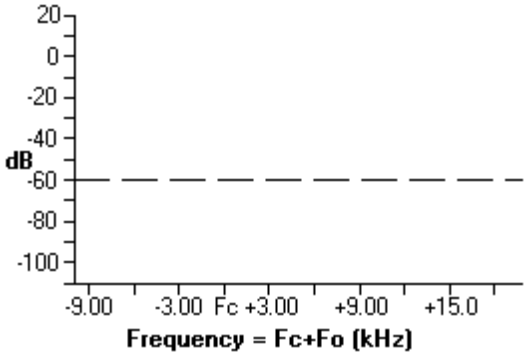
Figure 2 - Spurious Emission Curve (U)

Maximum Spurious Emission
Atten.
-60.0 dB



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Frequencies
Fixed Frequency : (U) 9600.0 MHz
Em. Designator : (U) 6M08P0N

Neccessary BW : (U) 6080.0 kHz

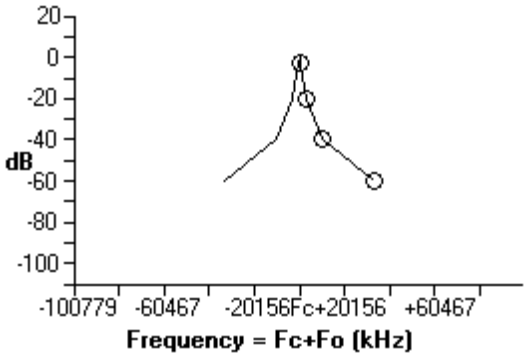
Modulation - 6M08P0N

Occupied Bandwidth	:	(U) 6080.0 kHz
Measured/Calculated	:	(U) Calculated
Radar/Communications	:	(U) Radar
Radar Type	:	(U) Non-FM Pulse Radar
Pulse Repetition Rate	:	(U) 275 pps
Pulse Rise Time	:	(U) 0.000100 ms
Pulse Fall Time	:	(U) 0.0000750 ms
Pulse Width	:	(U) 0.000960 ms
Pulse Duty Cycle	:	(U) 0.02640 %
Spread Spectrum	:	No
Pulse Width	:	(U) 0.000960

Figure 3 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	Offset (Fo)
-3.00 dB	429.24 kHz
-20.0 dB	3038.8 kHz
-40.0 dB	10623 kHz
-60.0 dB	33593 kHz



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Em. Designator : (U) 3M17P0N

Neccessary BW : (U) 3170.0 kHz

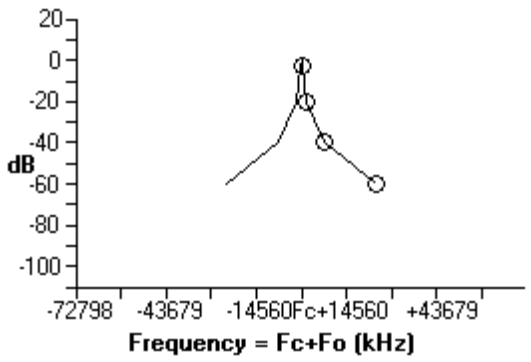
Modulation - 3M17P0N

Occupied Bandwidth	:	(U) 3171.2 kHz
Measured/Calculated	:	(U) Calculated
Radar/Communications	:	(U) Radar
Radar Type	:	(U) Non-FM Pulse Radar
Pulse Repetition Rate	:	(U) 275 pps
Pulse Rise Time	:	(U) 0.000100 ms
Pulse Fall Time	:	(U) 0.0000750 ms
Pulse Width	:	(U) 0.00192 ms
Pulse Duty Cycle	:	(U) 0.05280 %
Spread Spectrum	:	No
Pulse Width	:	(U) 0.00192

Figure 4 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	**Offset (Fo)**
-3.00 dB	223.97 kHz
-20.0 dB	1585.6 kHz
-40.0 dB	7673.5 kHz
-60.0 dB	24266 kHz



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Em. Designator : (U) 1M62P0N
Neccessary BW : (U) 1620.0 kHz

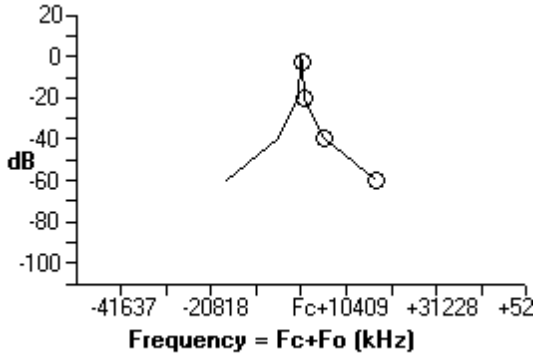
Modulation - 1M62P0N

Occupied Bandwidth	:	(U) 1620.9 kHz
Measured/Calculated	:	(U) Calculated
Radar/Communications	:	(U) Radar
Radar Type	:	(U) Non-FM Pulse Radar
Pulse Repetition Rate	:	(U) 275 pps
Pulse Rise Time	:	(U) 0.000100 ms
Pulse Fall Time	:	(U) 0.0000750 ms
Pulse Width	:	(U) 0.00384 ms
Pulse Duty Cycle	:	(U) 0.1056 %
Spread Spectrum	:	No
Pulse Width	:	(U) 0.00384

Figure 5 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	**Offset (Fo)**
-3.00 dB	114.48 kHz
-20.0 dB	810.47 kHz
-40.0 dB	5486.1 kHz
-60.0 dB	17349 kHz



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Em. Designator : (U) 820KP0N
Neccessary BW : (U) 820.00 kHz

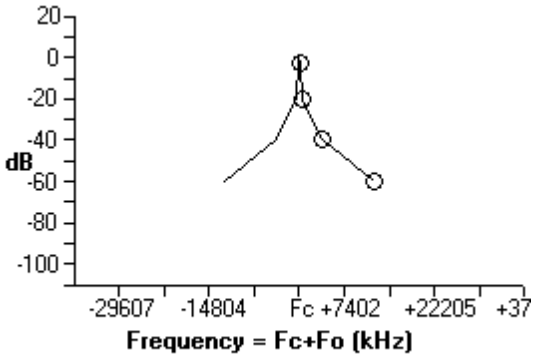
Modulation - 820KP0N

Occupied Bandwidth : (U) 820.00 kHz
Measured/Calculated : (U) Calculated
Radar/Communications : (U) Radar
Radar Type : (U) Non-FM Pulse Radar
Pulse Repetition Rate : (U) 275 pps
Pulse Rise Time : (U) 0.000100 ms
Pulse Fall Time : (U) 0.0000750 ms
Pulse Width : (U) 0.00768 ms
Pulse Duty Cycle : (U) 0.2112 %
Spread Spectrum : No
Pulse Width : (U) 0.00768

Figure 6 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	**Offset (Fo)**
-3.00 dB	57.885 kHz
-20.0 dB	409.80 kHz
-40.0 dB	3901.1 kHz
-60.0 dB	12336 kHz



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Em. Designator : (U) 411KP0N
Neccessary BW : (U) 411.00 kHz

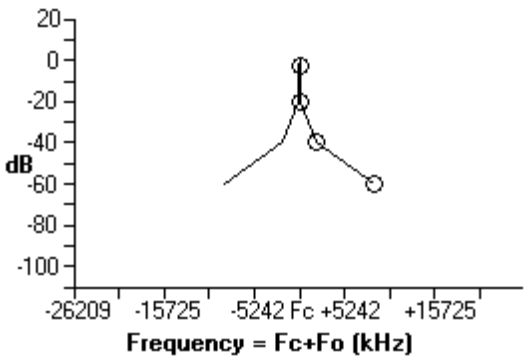
Modulation - 411KP0N

Occupied Bandwidth : (U) 411.00 kHz
Measured/Calculated : (U) Calculated
Radar/Communications : (U) Radar
Radar Type : (U) Non-FM Pulse Radar
Pulse Repetition Rate : (U) 275 pps
Pulse Rise Time : (U) 0.000100 ms
Pulse Fall Time : (U) 0.0000750 ms
Pulse Width : (U) 0.0154 ms
Pulse Duty Cycle : (U) 0.4224 %
Spread Spectrum : No
Pulse Width : (U) 0.0154

Figure 7 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	Offset (Fo)
-3.00 dB	29.031 kHz
-20.0 dB	205.53 kHz
-40.0 dB	2055.3 kHz
-60.0 dB	8736.4 kHz



(UNCLASSIFIED)

Em. Designator : (U) 87M0Q3N

Neccessary BW : (U) 87000 kHz

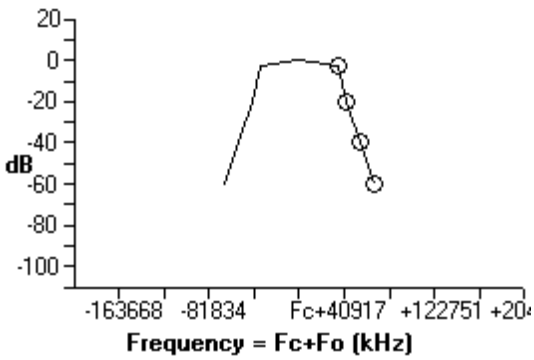
Modulation - 87M0Q3N

Occupied Bandwidth	:	(U) 87020 kHz
Measured/Calculated	:	(U) Calculated
Radar/Communications	:	(U) Radar
Radar Type	:	(U) FM Pulse Radar
Pulse Repetition Rate	:	(U) 500 pps
Pulse Rise Time	:	(U) 0.000100 ms
Justification	:	(U) Short rise time and fall times allow for a more precise resolution of elements within the SAR/ISAR image and increase Search I performance.
Pulse Fall Time	:	(U) 0.0000750 ms
Pulse Width	:	(U) 0.0200 ms
Pulse Duty Cycle	:	(U) 1.000 %
Pulse Comp. Ratio	:	(U) 1500
Pulse Freq. Deviation	:	(U) 75000 kHz
Spread Spectrum	:	No
Pulse Width	:	(U) 0.0200

Figure 8 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	Offset (Fo)
-3.00 dB	35945 kHz
-20.0 dB	43510 kHz
-40.0 dB	54472 kHz
-60.0 dB	68195 kHz



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Em. Designator : (U) 225MQ3N

Neccessary BW : (U) 225000 kHz

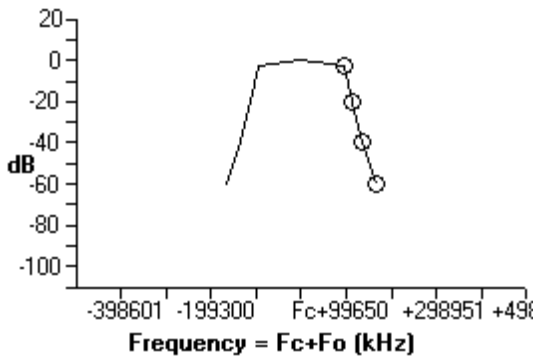
Modulation - 225MQ3N

Occupied Bandwidth	:	(U) 225220 kHz
Measured/Calculated	:	(U) Calculated
Radar/Communications	:	(U) Radar
Radar Type	:	(U) FM Pulse Radar
Pulse Repetition Rate	:	(U) 500 pps
Pulse Rise Time	:	(U) 0.000100 ms
Justification	:	(U) Short rise time and fall times allow for a more precise resolution of elements within the SAR/ISAR image and increase Search I performance.
Pulse Fall Time	:	(U) 0.0000750 ms
Pulse Width	:	(U) 0.0100 ms
Pulse Duty Cycle	:	(U) 0.5000 %
Pulse Comp. Ratio	:	(U) 2000
Pulse Freq. Deviation	:	(U) 200000 kHz
Spread Spectrum	:	No
Pulse Width	:	(U) 0.0100

Figure 9 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	**Offset (Fo)**
-3.00 dB	95467 kHz
-20.0 dB	112609 kHz
-40.0 dB	136757 kHz
-60.0 dB	166084 kHz



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Em. Designator : (U) 6M08Q1N

Neccessary BW : (U) 6080.0 kHz

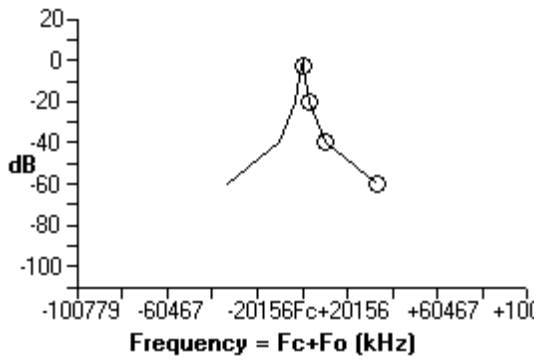
Modulation - 6M08Q1N

Occupied Bandwidth	:	(U) 6080.0 kHz
Measured/Calculated	:	(U) Calculated
Radar/Communications	:	(U) Radar
Radar Type	:	(U) Coded Pulse Radar
Pulse Repetition Rate	:	(U) 372 pps
Pulse Rise Time	:	(U) 0.000100 ms
Justification	:	(U) Short rise time and fall times allow for a more precise resolution within the Search II and increase mode performance.
Pulse Fall Time	:	(U) 0.0000750 ms
Pulse Width	:	(U) 0.0269 ms
Pulse Duty Cycle	:	(U) 0.9999 %
Radar Subpulses	:	(U) 28
Spread Spectrum	:	No
Pulse Width	:	(U) 0.0269

Figure 10 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	Offset (Fo)
-3.00 dB	429.24 kHz
-20.0 dB	3038.8 kHz
-40.0 dB	10623 kHz
-60.0 dB	33593 kHz



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Em. Designator : (U) 9M13Q1N

Neccessary BW : (U) 9130.0 kHz

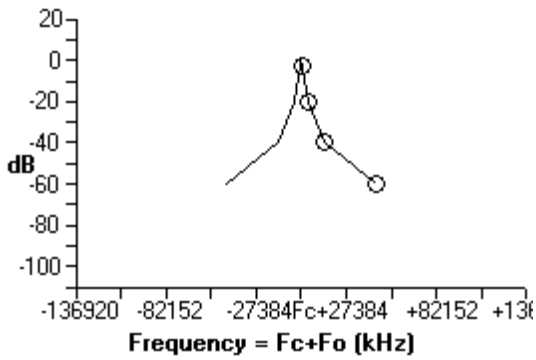
Modulation - 9M13Q1N

Occupied Bandwidth	:	(U) 9130.0 kHz
Measured/Calculated	:	(U) Calculated
Radar/Communications	:	(U) Radar
Radar Type	:	(U) Coded Pulse Radar
Pulse Repetition Rate	:	(U) 744 pps
Pulse Rise Time	:	(U) 0.000100 ms
Justification	:	(U) Short rise time and fall times allow for a more precise resolution within the Search II and increase mode performance.
Pulse Fall Time	:	(U) 0.0000750 ms
Pulse Width	:	(U) 0.0134 ms
Pulse Duty Cycle	:	(U) 0.9999 %
Radar Subpulses	:	(U) 28
Spread Spectrum	:	No
Pulse Width	:	(U) 0.0134

Figure 11 - Fundamental Curve (U)

Meas/Calc : Calculated

Level	Offset (Fo)
-3.00 dB	792.29 kHz
-20.0 dB	4564.0 kHz
-40.0 dB	14432 kHz
-60.0 dB	45640 kHz



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Powers

Power Type : Peak Envelope
Upper Limit : (U) 50000 W

RECEIVER AN/APS-152(V)1, (V)2 & AN/APS-148

Nomenclature : (U) AN/APS-152(V)1, (V)2 & AN/APS-148
Manufacturer : (U) RAYTHEON CO. OR RAYTHEON MANUFACTURING CO.
Model Name : (U) APS-152(V)1, APS-148, SEA VIEW RADAR
NTIA Approval Status : (U) Unapproved
Date/Time Last Mod. : 6/30/2010 12:12:48 AM (GMT)
Coordination ID : (U) J/F 12
Fcc Acc. Number : (U) Not Applicable
Freq. Stability : (U) 22 ppm
Image Reject : (U) 50.0dB
Oscillator Tuned : (U) Either
Tuning Method : (U) Crystal Controlled

Frequencies

Fixed Frequency : (U) 9600.0 MHz

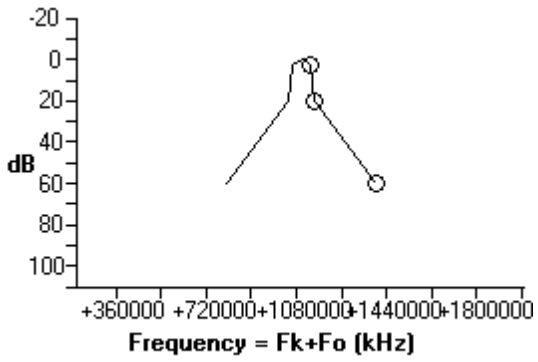
Sensitivities

Em. Designator : (U) 87M0Q3N
Necessary BW : (U) 87000 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB
Noise Temp. : (U) 438 K
Spur. Reject : (U) 60.0 dB

Figure 12 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	37750 kHz
20.0 dB	50000 kHz
60.0 dB	300000 kHz



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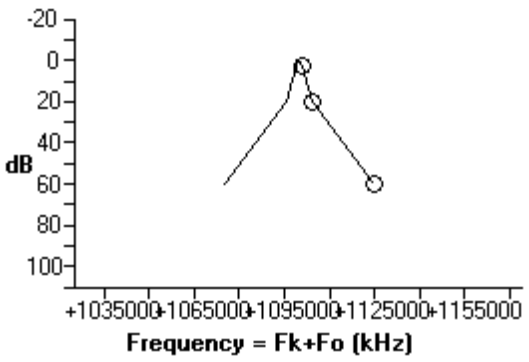
Sensitivities

Em. Designator : (U) 9M13Q1N
Necessary BW : (U) 9130.0 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB
Noise Temp. : (U) 438 K
Spur. Reject : (U) 60.0 dB

Figure 13 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	1000.0 kHz
20.0 dB	4000.0 kHz
60.0 dB	25000 kHz



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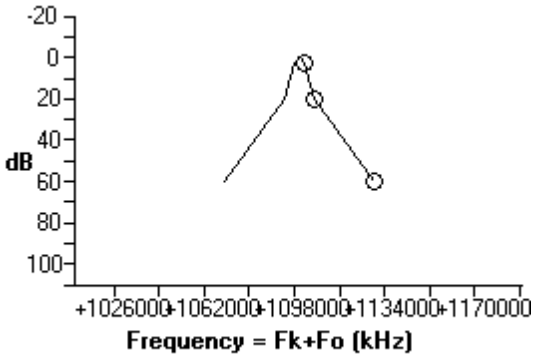
Sensitivities

Em. Designator : (U) 6M08Q1N
Necessary BW : (U) 6080.0 kHz
Perf. Crit. : (U) Other
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB
Spur. Reject : (U) 60.0 dB

Figure 14 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	2000.0 kHz
20.0 dB	6000.0 kHz
60.0 dB	30000 kHz



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Sensitivities

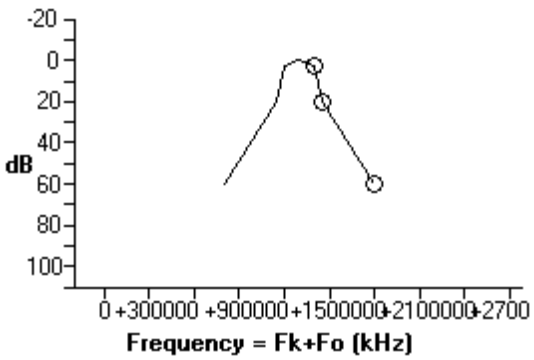
Em. Designator : (U) 225MQ3N
Necessary BW : (U) 225000 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB
Noise Temp. : (U) 438 K

Spur. Reject : (U) 60.0 dB

Figure 15 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1300.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	100000 kHz
20.0 dB	150000 kHz
60.0 dB	500000 kHz



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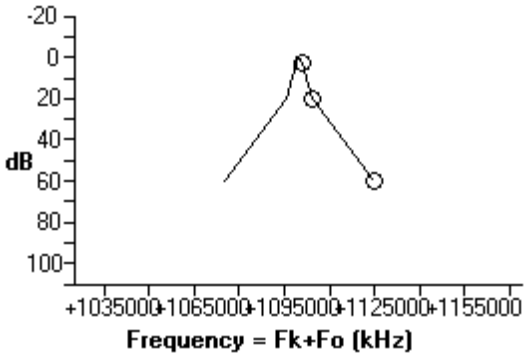
Sensitivities

Em. Designator : (U) 6M08P0N
Necessary BW : (U) 6080.0 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB
Noise Temp. : (U) 438 K
Spur. Reject : (U) 60.0 dB

Figure 16 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	1000.0 kHz
20.0 dB	4000.0 kHz
60.0 dB	25000 kHz



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Sensitivities

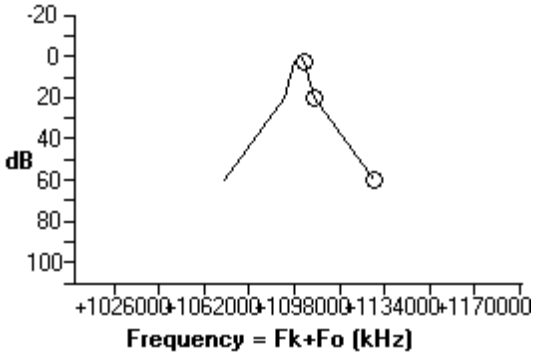
Em. Designator : (U) 3M17P0N
Necessary BW : (U) 3170.0 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB

Noise Temp. : (U) 438 K
Spur. Reject : (U) 60.0 dB

Figure 17 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	2000.0 kHz
20.0 dB	6000.0 kHz
60.0 dB	30000 kHz



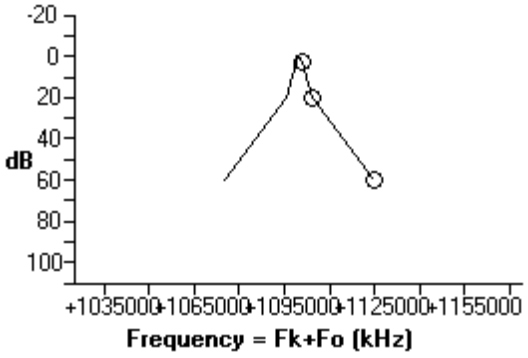
(UNCLASSIFIED)

Sensitivities
Em. Designator : (U) 1M62P0N
Necessary BW : (U) 1620.0 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB
Noise Temp. : (U) 438 K
Spur. Reject : (U) 60.0 dB

Figure 18 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	1000.0 kHz
20.0 dB	4000.0 kHz
60.0 dB	25000 kHz



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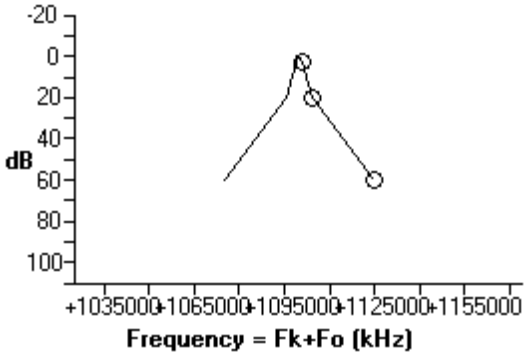
Sensitivities
Em. Designator : (U) 820KP0N
Necessary BW : (U) 820.00 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm

Noise Fig. : (U) 4.00 dB
Noise Temp. : (U) 438 K
Spur. Reject : (U) 60.0 dB

Figure 19 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	1000.0 kHz
20.0 dB	4000.0 kHz
60.0 dB	25000 kHz



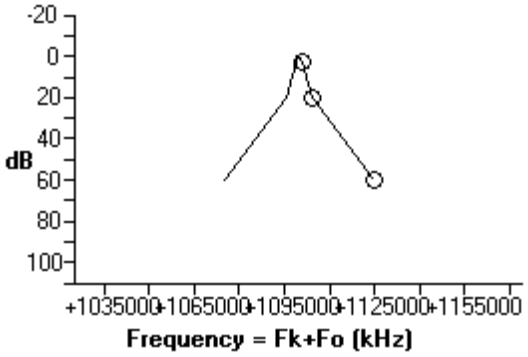
(UNCLASSIFIED)

Sensitivities
Em. Designator : (U) 411KP0N
Necessary BW : (U) 411.00 kHz
Perf. Crit. : (U) MDS - Minimum Discernable Signal (dB)
Perf. Value : (U) 0
Sensitivity : (U) -110 dBm
Noise Fig. : (U) 4.00 dB
Noise Temp. : (U) 438 K
Spur. Reject : (U) 60.0 dB

Figure 20 - IF Selectivity Curve (U)

IF Freq. (Fk) : 1100.0 MHz
Meas/Calc : Calculated

Atten.	Offset (Fo)
3.00 dB	1000.0 kHz
20.0 dB	4000.0 kHz
60.0 dB	25000 kHz

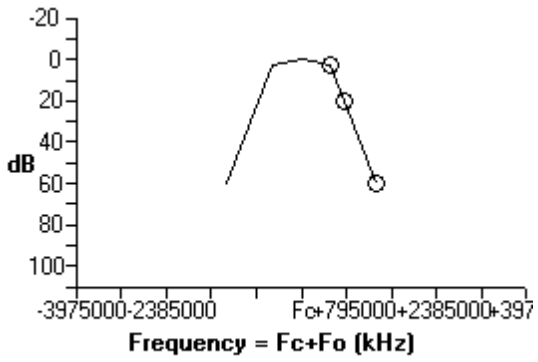


(UNCLASSIFIED)

Figure 21 - RF Selectivity Curve (U)

Meas/Calc : Calculated

Atten.	**Offset (Fo)**
3.00 dB	525000 kHz
20.0 dB	775000 kHz
60.0 dB	1325000 kHz



(UNCLASSIFIED)

ANTENNA AN/APS-152(V)1, (V)2 & AN/APS-148

Nomenclature	:	(U) AN/APS-152(V)1, (V)2 & AN/APS-148
Antenna Code	:	Aperture
Manufacturer	:	(U) RAYTHEON CO. OR RAYTHEON MANUFACTURING CO.
NTIA Approval Status	:	(U) Unapproved
Date/Time Last Mod.	:	6/29/2010 11:10:47 PM (GMT)
Coordination ID	:	(U) J/F 12
Lower Freq. Limit	:	(U) 9400.0 MHz
Upper Freq. Limit	:	(U) 9800.0 MHz
Polarization	:	(U) Vertical
Main Beam Gain	:	(U) 36.0 dBi
1st Horz. Sidelobe Atten.	:	(U) 0.000 dB
1st Vert. Sidelobe Atten.	:	(U) 0.000 dB
Atten. Rel/Act	:	(U) Relative dB
Horz. Beamwidth	:	(U) 1.92 degrees
Vert. Beamwidth	:	(U) 3.00 degrees
Horz. Scan Type	:	(U) Electronic Scan Sector
Horz. Scan Speed	:	(U) 720 degrees/sec
Horz. Scan Rate	:	(U) 120 scans/min
Horz. Scan Type	:	(U) Electronic Scan Sector
Vert. Scan Type	:	(U) Mechanically Steerable

Frequency List

Tx Station	Rx Station	Frequency (MHz)	Em. Des.	Stn. Class
(U) AN/APS-152(V)1, (V)2 & AN/APS-148	(U) Target	(U) 9600.0	(U) 1M62P0N	MR
			(U) 225MQ3N	
			(U) 3M17P0N	
			(U) 411KP0N	
			(U) 6M08P0N	
			(U) 6M08Q1N	
			(U) 820KP0N	
			(U) 87M0Q3N	
			(U) 9M13Q1N	

Line Diagram: AN/APS-152(V)1, (V)2 & AN/APS-148, SeaView Radar