VIAVI Solutions

Data Sheet

VIAVI

AVX-10K and IFR6000/6015

Product Features and Specifications Comparison

A detailed product to product comparison of the AVX-10K and IFR6000/6015

	AVX-10K	IFR6000/IFR6015
General Features		
XPDR Modes		
	3/A,C and S ELS/EHS	3/A,C and S ELS/EHS
	ADS-B Out / (In 5 target generator) DO260A/DO260B	ADS-B Out / (In single target) DO260A/ DO260B
	TCAS 1, 2, TAS, and E-TCAS	TCAS 1, 2, TAS, and E-TCAS
	DME	DME
VSWR/DTF		
Cable Characteristics	Selectable data base	No Facility
Sampling Resolution	Automatic	No Facility
Amplitude Range	Automatic or 1 to 10 scale	No Facility
Distance Markers	Manually set or auto highest peak, next or previous peak, Capture, Save and Recall Trace	No Facility
I/O (requires break out box on IFR6000)		
	Full remote capability	USB host port
	Two (2) USB host ports	USB device port
	Two (2) LAN Ethernet ports	RS-232
	Software update via USB or StrataSync™	Software update via USB
	VNC Capability	Full remote capability
GPS		
	Built in GPS L1 C/A code receiver. Used for UTC UAT slot timing and ADS-B target generator reference position.	GPS receiver for UTC UAT slot timing

	AVX-10K	IFR6000/IFR6015
Test Report Access		
	All test results may be named and saved and then save to a named work order	XPDR Test Data dump
	File browser	
	StrataSync™ Cloud report Storage	
Display		
	Display graphical color 800 pixels x 480 pixels, 5" diagonal	Display monochrome 15 lines x 38 characters plus 2 line x 5 softkeys
	4 softkeys	5 soft keys
	Daylight viewable	Daylight viewable
	Adjustable backlight	Adjustable backlight
	Note: adjustable contrast not required	Adjustable contrast
	Color graphic touch screen allows individual test screens to be scrolled for data review	Monochrome text display. Multiple screens for some tests.
	Use of RTCA long field descriptions make test set easy to use	RTCA Abbreviated field descriptors used for data where screen space is limited
Weight		
	Light weight 7 lb (0.45 kg) and small size easy to carry and allows use in cockpit	Light weight < 8 lb and small size easy to carry and allows use in cockpit
Battery		
	The long battery operation (typical > 8 hours use), allows testing throughout a full working day without recharge.	The long battery operation (> 8 hours continuous use), allows testing throughout a full working day without recharge.
Directional Antenna		
Unit Mounted	Yes	Yes
Hand Held	Yes	Yes
Tripod Mounted	Yes	Yes
(XPDR) Non Monopulse	Yes	Yes
(DME) Characterized over 5 frequencies (in DME setup screen) to maintain measurement accuracy	Yes	Yes
Built In Self-Test	Yes	Yes
XPDR Tests		
Auto test screen displays all FAR Part 43 items	Yes	Yes
	RTCA long field descriptors used for data	RTCA Abbreviated field descriptors used for data where screen space is limited
Multiple Configs provided to allow different classes of transponder (also options) to be verified	Yes	Yes
ERP and MTL measurements stored for both UUT antennas	Yes	Yes
Elementary Surveillance DAPs Primary Data Decoded and Displayed		
BDS 1,0: Data Link Cap Report	Yes	Yes

	AVX-10K	IFR6000/IFR6015
BDS 1,7: Common Usage GICB Cap Report BDS 1,8: BDS 1,9 BDS 1,A BDS 1,B BDS 1,C BDS 1,C: Specific Services Cap Report	Yes	Yes
BDS 2,0: Flight ID	Yes	Yes
BDS 3,0: ACAS ARA Report	Yes	Yes
	Note: ADS-B option provides DAP's full data decode and display for GICB and DF17/DF18 (DO-260A/B), extended squitter	*Note: ADS-B option provides DAP's full data decode and display for GICB and DF17/DF18 (DO-260A/B), extended squitter*
Enhanced Surveillance DAP's Primary Data Decoded and Displayed On One Screen		
BDS 4,0: Selected Altitude Report	Yes	Yes
BDS 5,0: Track & Turn Report	Yes	Yes
BDS 6,0: Heading & Speed Report	Yes	Yes
ADS-B In: Decode and Display Screens		
BDS 0,5: Airborne Position	Yes	Yes
BDS 0,6: Surface Position	Yes	Yes
BDS 0,8: Ident and Category	Yes	Yes
BDS 0,9: Airborne Velocity	Yes	Yes
BDS 0,A: Test Message	Yes	Yes
BDS 6,1: Aircraft Status subtype 1	Yes	Yes
BDS 6,1: Aircraft Status subtype 2	Yes	Yes
BDS 6,2: Target State and Status subtype 0	Yes	Yes
BDS 6,2: Target State and Status subtype 1	Yes	Yes
BDS 6,5: Aircraft Operational Status - Surface	Yes	Yes
BDS 6,5: Aircraft Operational Status - Air	Yes	Yes
ADS-B Out: Encode and display screens		
BDS 0,5: Airborne Position	Yes	Yes
BDS 0,6: Surface Position	Yes	Yes
BDS 0,8: Ident and Category	Yes	Yes
BDS 0,9: Airborne Velocity	Yes	Yes
BDS 0,A: Test Message	Yes	Yes
BDS 6,1: Aircraft Status subtype 1	Yes	Yes
BDS 6,1: Aircraft Status subtype 2	Yes	Yes

	AVX-10K	IFR6000/IFR6015
BDS 6,2: Target State and Status subtype 0	Yes	Yes
BDS 6,2: Target State and Status subtype 1	Yes	Yes
BDS 6,5: Aircraft Operational Status- Surface	Yes	Yes
BDS 6,5: Aircraft Operational Status- Air	Yes	Yes
Advisory Circular 20-165		
Surface	Yes	Yes
Air	Yes	Yes
GICB Decode and Display Screens		
BDS 0,5: Airborne Position	Yes	Yes
BDS 0,6: Surface Position	Yes	Yes
BDS 0,7: Squitter Status	Yes	Yes
BDS 0,8: Ident and Category	Yes	Yes
BDS 0,9: Airborne Velocity	Yes	Yes
BDS 1,0: Data Link Capability	Yes	Yes
BDS 1,7: GICB Common Usage	Yes	Yes
BDS 1,8: Specific Services #1	Yes	Yes
BDS 1,9: Specific Services #2	Yes	Yes
BDS 1,A: Specific Services #3	Yes	Yes
BDS 1,B: Specific Services #4	Yes	Yes
BDS 1,C: Specific Services #5	Yes	Yes
BDS 1,D: Message Capability Report 1-28	Yes	Yes
BDS 1,E: Message Capability Report 29-56	Yes	Yes
BDS 1,F: Message Capability Report 57-63	Yes	Yes
BDS 2,0: Flight ID	Yes	Yes
BDS 2,1: Aircraft Registration #	Yes	Yes
BDS 3,0: ACAS ARA	Yes	Yes
BDS 4,0: Vertical intent	Yes	Yes
BDS 4,1: Waypoint Name	Yes	Yes
BDS 4,1: Waypoint Position	Yes	Yes
BDS 4,3: Waypoint Details	Yes	Yes
BDS 5,0: Track and Turn	Yes	Yes
BDS 6,0: Heading & Speed	Yes	Yes
BDS 6,1: Aircraft Status	Yes	Yes
BDS 6,2: Target State & Status	Yes	Yes

	AVX-10K	IFR6000/IFR6015
BDS 6,5: Aircraft Operational Status Air	Yes	Yes
BDS 6,5: Aircraft Operational Status Surface	Yes	Yes
ADS-B Target Generation		
	5 targets referenced to user entered location or built in GPS receiver location	Single static target
	Programmable Heading, Range and Targets may be ADS-B, ADS-R or TIS-B	Individual BDS need to be carefully programmed
UUT Measurement		
TX Frequency	Yes	Yes
TX Power (Direct Connect)	Yes	Yes
ERP		
Units dBm, dBW or Watts Peak	Yes	Yes
MTL	Yes	Yes
Mode A 4096 code	Yes	Yes
Mode A ident	Yes	Yes
Mode 3/A emergency	Yes	Yes
Mode A % reply	Yes	Yes
Note: Reply Ratio Field	Yes	Yes
Mode C % reply	Yes	Yes
Note: Reply Ratio Field	Yes	Yes
Mode A F1/F2 pulse spacing	Yes	Yes
Mode A F1/F2 pulse width	Yes	Yes
Mode A SLS	Yes	Yes
Mode A reply delay	Yes	Yes
Mode A reply jitter	Yes	Yes
Mode C code	Yes	Yes
Mode C altitude	Yes	Yes
Mode C F1/F2 pulse spacing	Yes	Yes
Mode C F1/F2 pulse width	Yes	Yes
Mode C SLS	Yes	Yes
Mode C reply delay	Yes	Yes
Mode C reply jitter	Yes	Yes
ITM A reply delay	Yes	Yes
ITM A reply jitter	Yes	Yes
ITM A reply ratio	Yes	Yes
ITM C reply delay	Yes	Yes
ITM C reply jitter	Yes	Yes
ITM C reply ratio	Yes	Yes
Mode S reply delay	Yes	Yes
Mode S reply jitter	Yes	Yes
Mode A All-Call	Yes	Yes

	AVX-10K	IFR6000/IFR6015
Mode C All-Call	Yes	Yes
Mode S All-Call		
Discrete Address in HEX	Yes	Yes
Country	Yes	Yes
Tail Number	Yes	Yes
Mode A/S All-Call		
Percent Reply	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode C/S All-Call		
Percent Reply	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode S P5 SLS	Included	Included
Mode S Reply Droop test	Included	Included
DF11 Squitter Distribution test	Included	Included
DF11 Squitter Period	Included	Included
Invalid Discrete Address test	Included	Included
Mode S Reply Rate test	Included	Included
Diversity Isolation	Included	Included
DF17 Extended Squitter Detected		
	Squitter Period Interval Displayed	Squitter Period Interval Displayed
	Note: ADS-B option provides complete RTCA DO-260A/B decode for DF17 extended squitter	*Note: ADS-B option provides complete RTCA DO-260A/B decode for DF17 extended squitter*
Mode S Reply Probability	Included	Included
Mode S Pulse Width	Included	Included
Mode S Pulse Spacing	Included	Included
Mode S Format Tests		
	These are organized in a logical easy to follow format	These are organized in a logical easy to follow format
	The DF formats are fully decoded and displayed	The DF formats are fully decoded and displayed
Mode S DF0		
Discrete address in HEX and OCTAL	Yes	Yes
Percent Reply	Yes	Yes
(VS, CC, SL, RI decoded into RTCA format) AC displayed in HEX, OCTAL code and feet	Yes	Yes
DF0 Address compared with DF11 address	Yes	Yes

	AVX-10K	IFR6000/IFR6015
Country, tail number	Yes	Yes
Note: 100 Percent Reply is verified as part of test background and not displayed	Yes	Yes
	Note: Country and tail number decoded and displayed in XPDR – S All Call test and Auto Test	*Note: Country and tail number decoded and displayed in XPDR – S All Call test and Auto Test*
Mode S DF4		
Discrete address in HEX and OCTAL	Yes	Yes
AC displayed in HEX, OCTAL code and feet	Yes	Yes
Mode C/S altitude compared	Yes	Yes
Percent Reply	Yes	Yes
FS, DR, UM all decoded into RTCA format	Yes	Yes
DF4 Address compared with DF11 address	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode S DF5		
Discrete address in HEX and OCTAL	Yes	Yes
Percent Reply	Yes	Yes
ID displayed in OCTAL and HEX	Yes	Yes
FS, DR, UM all decoded into RTCA format	Yes	Yes
Mode A/S code compared	Yes	Yes
DF5 Address compared with DF11 address	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode S DF11		
Discrete address in HEX and OCTAL	Yes	Yes
Percent Reply	Yes	Yes
CA, decoded into RTCA format	Yes	Yes
PI displayed	Yes	Yes
All II codes tested (any failures displayed)	Yes	Yes
All SI codes tested (any failure displayed)	Yes	Yes
Lockout timer test	Yes	Yes

	AVX-10K	IFR6000/IFR6015
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode S DF16		
Discrete address in HEX and OCTAL	Yes	Yes
Percent Reply	Yes	Yes
VS, CC, SL, RI decoded into RTCA format	Yes	Yes
MV display in HEX	Yes	Yes
AC displayed in HEX, OCTAL code and feet	Yes	Yes
DF0 Address compared with DF11 address	Yes	Yes
Country, Tail Number	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
	Note: Country and tail number decoded and displayed in XPDR – S All Call test and Auto Test	*Note: Country and tail number decoded and displayed in XPDR – S All Call test and Auto Test*
Mode S DF20		
Method compliant with FAR Part 43	Yes	Yes
Discrete address in HEX and OCTAL	Yes	Yes
AC displayed in HEX, OCTAL code and feet	Yes	Yes
Mode C/S altitude compared	Yes	Yes
Percent Reply	Yes	Yes
FS, DR, UM all decoded into RTCA format	Yes	Yes
DF20 Address compared with DF11 address	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode S DF21		
Method compliant with FAR Part 43	Yes	Yes
Discrete address in HEX and OCTAL	Yes	Yes
Percent Reply	Yes	Yes
ID displayed in OCTAL and HEX	Yes	Yes
FS, DR, UM all decoded into RTCA format	Yes	Yes
Mode A/S code compared	Yes	Yes

	AVX-10K	IFR6000/IFR6015
DF21 Address compared with DF11 address	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode S DF24		
Discrete address in HEX and OCTAL	Yes	Yes
Percent Reply	Yes	Yes
DF20 Address compared with DF11 address	Yes	Yes
DF24 Address compared with DF11 address	Yes	Yes
Multi segment UELM protocol test	Yes	Yes
	Note: 100 Percent Reply is verified as part of test background and not displayed	*Note: 100 Percent Reply is verified as part of test background and not displayed*
Mode C Altitude Decoder External Input	No Facility	Yes
Mode A Decoder test	Yes	Yes
Mode C Decoder test	Yes	Yes
Elementary Survey	Yes	Yes
Enhanced Survey	Yes	Yes
DME/TACAN Tests		
Modes		
T/R Norm	Yes	Yes
T/R Range Only	Yes	Yes
T/R Inverse	No	Yes
A/A Beacon	Yes	Yes
A/A Range Only	Yes	Yes
A/A Inverse	No	Yes
Frequency MHz VOR/DME paired Channel	Yes	Yes
PRF	Yes	Yes
P1-P2 Spacing	Yes	Yes
P1 and P2 Widths	Yes	Yes
TX Frequency	Yes	Yes
TX Power (Direct Connect)	Yes	Yes
ERP	Yes	Yes
Start Bearing		
0 to 359.9	Yes	Yes
Bearing Rate		
-2 degrees/sec to +2 degrees/sec	Yes	No

	AVX-10K	IFR6000/IFR6015
Range		
0 to 450 nm	Yes	Yes
0.1 nm increments	Yes	Yes
Rate		
0 to 6500 kts	Yes	Yes
Rate STOP/START		
Yes	Yes	Yes
RF Reply Level		
Variable for track sensitivity tests	Yes	Yes
% Reply		
Variable 10% increments	Yes	Yes
Squitter		
ON/OFF	Yes	Yes
Echo		
ON/OFF	Yes	Yes
Ident		
OFF / MORSE / TONE	Yes	Yes
User defined	2 to 3 characters	3 characters
TCAS Tests		
Types		
TCAS I, II, TAS, E-TCAS	Yes	Yes
Intruders		
ATCRBS/Mode S	Yes	Yes
Auto Mode C Altitude	Yes	Yes
Auto Convergence	Yes	Yes
Identity Code	Yes	Yes
Offset Operation	Yes	Yes
Programmable Scenarios	Yes	Yes
Time To Encounter Display	Yes	Yes
TX Power (Direct Connect)	Yes	Yes
ERP	Yes	Yes
TX Frequency	Yes	Yes
TCAS Status Display	Yes	Yes
UAT Tests		
UAT Services ADS- B, FIS- B, TIS-B	Yes	Yes
ADS-B Monitor Screen		
Address Qualifier		
0 = ADS-B ICAO	Yes	Yes
1 = ADS-B TEMP	Yes	Yes
2 = TIS-B / ADS-R	Yes	Yes
3 = TIS-B IDENT	Yes	Yes

	AVX-10K	IFR6000/IFR6015
4 = SURFACE	Yes	Yes
5 = ADS-B BEACON	Yes	Yes
6 = NON-ICAO	Yes	Yes
ADS-B Monitor Modes		
State Vector	Yes	Yes
Auxiliary State Vector	Yes	Yes
Mode Status	Yes	Yes
Target State	Yes	Yes
UAT FIS-B generator screen	Yes	Yes

AVX-10K and IFR6000/IFR6015 Specifications Comparison

AVX10-K and IFR6000 Specifications Comparison		
Note: A five minute warm-up period is required for all specifications. Note: Specifications are subject to change without notice.		
XPDR Generate		
Modes	1,2,3/A,C,S, ADS-B In (TX)	1,2,3/A,C,S, ADS-B In (TX)
Interrogation Frequency	1030 MHz	1030 MHz
MHz Accuracy	±10 kHz	±10 kHz
RF Output Level		
Ant Connector	MTL +6 dB typical, automatically controlled for a MTL range of -83 to -68 dBm	MTL +6 dB typical, automatically controlled for a MTL range of -83 to -68 dBm
Range	-67 to -2 dBm at ANT Connector	-67 to -2 dBm at ANT Connector
Resolution	0.5 dB	0.5 dB
Accuracy	±2 dB	±2 dB
Distance to UUT Antenna	6 to 200 ft with supplied antenna	6 to 200 ft with supplied antenna
RF I/O Connector	MTL +6 dB typical, automatically controlled	MTL +6 dB typical, automatically controlled Range: -115 to -47 dBm
Range	-115 to -47 dBm	-115 to -47 dBm
Resolution	0.5 dB	0.5 dB
Accuracy	-95 to -47 dBm: ±1 dB , -115 to < -95 dBm: ±2 dB	-95 to -47 dBm: ±1 dB , -115 to < -95 dBm: ±2 dB
Antenna Beamwidth	40°	40°
ATCRBS/Mode Interrogation Pulse Spacing		
Mode 1		
P1 to P2	2.00 µs (±25 ns)	2.00 µs (±25 ns)
P1 to P3	3.00 µs (±25 ns)	3.00 µs (±25 ns)
Mode 2		
P1 to P2	2.00 µs (±25 ns)	2.00 µs (±25 ns)
P1 to P3	5.00 µs (±25 ns)	5.00 µs (±25 ns)
Mode 3/A		
P1 to P2	2.00 µs (±25 ns)	2.00 µs (±25 ns)
P1 to P3	8.00 µs (±25 ns)	8.00 µs (±25 ns)

	AVX-10K	IFR6000/IFR6015
Mode C		
P1 to P2	2.00 µs (±25 ns)	2.00 µs (±25 ns)
P1 to P3	21.00 µs (±25 ns)	21.00 µs (±25 ns)
Mode S		
P1 to P2	2.00 µs (±25 ns)	2.00 µs (±25 ns)
P1 to P6	3.50 µs (±25 ns)	3.50 µs (±25 ns)
P1 to SPR	4.75 µs (±25 ns)	4.75 µs (±25 ns)
P5 to SPR	0.40 µs (±50 ns)	0.40 µs (±50 ns)
Intermode Interrogation Pulse Spacing		
Mode A		
P1 to P3	8.00 µs (±25 ns)	8.00 µs (±25 ns)
P1 to P4	10.00 µs (±25 ns)	10.00 µs (±25 ns)
Mode C		
P1 to P3	21.00 µs (±25 ns)	21.00 µs (±25 ns)
P1 to P4	23.00 µs (±25 ns)	23.00 µs (±25 ns)
Interrogation Pulse Widths		
Mode A, C, S, Intermode		
P1, P2, P3	0.80 µs (±50 ns)	0.80 µs (±50 ns)
Mode S		
P6 (Short DPSK Block)	16.25 µs (±50 ns)	16.25 µs (±50 ns)
P6 (Long DPSK Block)	30.25 µs (±50 ns)	30.25 µs (±50 ns)
P5	0.80 µs (±50 ns)	0.80 µs (±50 ns)
Intermode		
P4 (Short)	0.80 µs (±50 ns)	0.80 µs (±50 ns)
P4 (Long)	1.60 µs (±50 ns)	1.60 µs (±50 ns)
Interrogation Pulse Rise and Fall Times		
All Modes		
Rise Time	50 to 100 ns	50 to 100 ns
Fall Time	50 to 200 ns	50 to 200 ns
All Modes		
Transition Time	≤80 ns	≤80 ns
Phase Shift	180° (±10°)	180° (±10°)
SLS Levels		
ATCRBS		
SLS Level (P2)		
	-9 dB, -1 to + 0 dB relative to P1 level	-9 dB, -1 to +0 dB relative to P1 level
	0 dB, -0 to + 1 d B relative to P1 level	0 dB, - 0 to +1 d B relative to P1 level
	Off	Off
Mode S		
SLS Level (P5)		
	-12 dB, -1 to +0 dB relative to P6 level	-12 dB, -1 to +0 dB relative to P6 level
	+3 d B, -0 to +1 dB relative to P 6 level	+3 d B, -0 to +1 dB relative to P6 level
	Off	Off

	AVX-10K	IFR6000/IFR6015
Interrogation Test Signals		
Mode S		
PRF	50 Hz (±5 Hz)	50 Hz (±5 Hz)
ATCRBS		
PRF	235 Hz (±5 Hz)	235 Hz (±5 Hz)
XPDR Receive		
Modes	ADS-B Out (RX)	ADS-B Out (RX)
Frequency Range	1087.00 to 1093.00 MHz	1087.00 to 1093.00 MHz
Resolution	10 KHz	10 KHz
Accuracy	±50 KHz	±50 KHz
ERP (@1090 MHz)	+45.5 to +59 dBm (35.5 to 800 W)	+45.5 to +59 dBm (35.5 to 800 W)
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
Direct Connect Peak Pulse Power (@ 1090 MHz)	+46.5 to +59 dBm (45 to 800 W)	+46.5 to +59 dBm (45 to 800 W)
Power Accuracy RF I/O	±1 dB	±1 dB
Resolution	0.1 dB	0.1 dB
Accuracy	±1 dB	±1 dB
Receiver Sensitivity Radiated MTL	-79 to -67 dBm into 0 dBi antenna	-79 to -67 dBm into 0 dBi antenna
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB, typical	±2 dB, typical
Receiver Sensitivity Direct Connect MTL	-79 to -67 dBm	-79 to -67 dBm
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
ATCRBS		
Reply Delay Range	1.80 to 7.00 µs	1.80 to 7.00 µs
Resolution	10 ns	10 ns
Accuracy	±50 ns	±50 ns
Mode S/ATCRBS/Mode S All-Call		
Reply Delay Range	125.00 to 131.00 µs	125.00 to 131.00 µs
Resolution	10 ns	10 ns
Accuracy	±50 ns	±50 ns
Reply Delay Jitter		
ATCRBS Range	0.00 to 2.30 µs	0.00 to 2.30 µs
Resolution	1 ns	1 ns
Accuracy	±20 ns	±20 ns
Mode S and ATCRBS		
Mode S ALL-CALL Range	0.00 to 6.00 µs	0.00 to 6.00 µs
Resolution	1 ns	1 ns
Accuracy	±20 ns	±20 ns

	AVX-10K	IFR6000/IFR6015
Pulse Spacing		
F1 to F2		
Range	19.70 to 21.60 µs	19.70 to 21.60 µs
Resolution	1 ns	1 ns
Accuracy	±20 ns	±20 ns
Mode S Preamble		
Range		
P1 to P2	0.8 to 1.2 µs	0.8 to 1.2 µs
P1 to P3	3.3 to 3.7 µs	3.3 to 3.7 µs
P1 to P4	4.3 to 4.7 µs	4.3 to 4.7 µs
Resolution	1 ns	1 ns
Accuracy	±20 ns	±20 ns
Pulse Widths		
F1 and F2		
Range	0.25 to 0.75 µs	0.25 to 0.75 µs
Resolution	1 ns	1 ns
Accuracy	±20 ns	±20 ns
Mode S Preamble		
Range	0.25 to 0.75 µs	0.25 to 0.75 µs
Resolution	1 ns	1 ns
Accuracy	±20 ns	±20 ns
Pulse Amplitude Variation		
Range		
Mode S (Relative to P1)	-3 to +3 dB ATCRBS	-3 to +3 dB ATCRBS
(Relative to F1)	-3 to +3 dB	-3 to +3 dB
Resolution	0.1 dB, (0.01 dB via RCI)	0.1 dB, (0.01 dB via RCI)
Accuracy	±0.5 dB	±0.5 dB
DF 11 Squitter Period		
Range	0.10 to 4.88 sec	0.10 to 4.88 sec
Resolution	10 ms	10 ms
Accuracy	±10 ms	±10 ms
Diversity Isolation		
Range	0 to > 20 dB (Depending on Test Distance)	0 to > 20 dB (Depending on Test Distance)
	Test Distance is 1.83 m (6 ft) to 28.96 m (95 ft)	Test Distance is 1.83 m (6 ft) to 28.96 m (95 ft)
Resolution	0.1 dB	0.1 dB
Accuracy	±3 dB	±3 dB
DME Test		
DME Generate Output Frequency		
Reply Frequency		
Range	962 to 1213 MHz	962 to 1213 MHz
Accuracy	±10 kHz	±10 kHz

	AVX-10K	IFR6000/IFR6015
Output Level		
ANT Connector		
Range	-67 to -2 dBm at ANT Port	-67 to -2 dBm at ANT Port
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
Distance to UUT Antenna	6 to 300 ft with supplied antenna	6 to 300 ft with supplied antenna
RF I/O Port		
Range	-115 to -47 dBm	-115 to -47 dBm
Resolution	1 dB	1 dB
Accuracy		
-95 to -47 dBm	±1 dB	±1 dB
-115 to -95 dBm	±2 dB	±2 dB
Reply Pulse Spacing		
P1 to P2	12 µs (±100 ns) (X Channel) at 50% peak	12 µs (±100 ns) (X Channel) at 50% peak
P1 to P2	30 µs (±100 ns) (Y Channel) at 50% peak	30 µs (±100 ns) (Y Channel) at 50% peak
Reply Pulse Width		
P1 /P2	3.5 µs (±0.5 µs)	3.5 µs (±0.5 µs)
Echo Reply		
Control	On/Off	On/Off
Position	30 nmi (±1 nmi)	30 nmi (±1 nmi)
Amplitude	-11 dB (±1 dB) relative to reply level	-11 dB (±1 dB) relative to reply level
Reply Pulse Rise and Fall Times		
All Pulses		
Rise Time	2.5 µs (±0.25 µs) (10% to 90%)	2.5 µs (±0.25 µs) (10% to 90%)
Fall Time	2.5 µs (±0.25 µs) (90% to 10%)	2.5 µs (±0.25 µs) (90% to 10%)
Reply Delay		
X Channel		
Fixed Reply Delay	50 µs (±100 ns)	50 µs (±100 ns)
Y Channel		
Fixed Reply Delay	56 µs (±100 ns)	56 µs (±100 ns)
Range Delay		
X and Y Channel		
Range	0 to 450.00 nmi	0 to 450.00 nmi
Resolution	0.01 nmi	0.01 nmi
Accuracy	±0.01 nmi	±0.01 nmi
Range Rate		
X and Y Channel		
Range	10 to 6500 kts	10 to 6500 kts
Resolution	1 kts	1 kts
Accuracy	±0.01 % typical, tested to ±0.5%	±0.01 % typical, tested to ±0.5%

	AVX-10K	IFR6000/IFR6015
Squitter		
PRF	2700 Hz	2700 Hz
Accuracy	±2%	±2%
Distribution	Per ARINC 568	Per ARINC 568
Reply Efficiency		
Range	0 to 100%	0 to 100%
Resolution	1% increments	1% increments
Accuracy	±0.5%	±0.5%
Ident Tone		
Selection	Selectable two or three letter code	Selectable three letter code
Frequency	1350 Hz	1350 Hz
Accuracy	±2 Hz	±2 Hz
DME Receive Frequency		
Range	1025.00 to 1150.00 MHz	1025.00 to 1150.00 MHz
Resolution	10 kHz	10 kHz
Accuracy	±20 KHz	±20 KHz
ERP		
Range	+47 to +64 dBm	+47 to +64 dBm
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
Antenna Beamwidth	40°	40°
RF I/O Port Peak Pulse Power		
Range	+47 to +64 dBm	+47 to +64 dBm
Resolution	0.1 dB	0.1 dB
Accuracy	±1 dB	±1 dB
Interrogation Pulse Width		
P1 and P2 Pulse Widths		
Range	2.00 to 5.00 µs	2.00 to 5.00 µs
Resolution	1 ns	1 ns
Accuracy	±50 ns	±50 ns
Interrogation Pulse Spacing		
P1 to P2 Spacing	10 to 14 µs (X Channel)	10 to 14 µs (X Channel)
	34 to 38 µs (Y Channel)	34 to 38 µs (Y Channel)
Resolution	10 ns	10 ns
Accuracy	±20 ns	±20 ns
Interrogation PRF		
Range	1 to 300 Hz	1 to 300 Hz
Resolution	1 Hz	1 Hz
Accuracy	±2 Hz	±2 Hz

	AVX-10K	IFR6000/IFR6015
TACAN Test		
TACAN Generate Output		
Frequency Reply Frequency		
Range	962 to 1213 MHz	962 to 1213 MHz
Accuracy	±10 kHz	±10 kHz
Output Level		
ANT Port		
Range	-67 to -5 dBm (T/R Norm, A/A Beacon)	-67 to -5 dBm (T/R Norm, T/R Inverse, A/A Beacon, A/A Inverse)
	-67 to -2 dBm (T/R Rng Only, A/A Rng Only)	-67 to -2 dBm (T/R Rng Only, A/A Rng Only)
Resolution	0.1 dB	0.5 dB
Accuracy	±2 dB	±2 dB
Distance to UUT Antenna	6 to 250 ft with supplied antenna	6 to 250 ft with supplied antenna
RF I/O Port		
Range	-115 to -50 dBm (T/R Norm, A/A Beacon)	-115 to -50 dBm (T/R Norm, T/R Inverse, A/A Beacon, A/A Inverse)
	-115 to -47 dBm (T/R Rng Only, A/A Rng Only)	-115 to -47 dBm (T/R Rng Only, A/A Rng Only)
Resolution	0.5 dB	0.5 dB
Accuracy		
-95 to -50 dBm	±1 dB	±1 dB
-115 to < -95 dBm	±2 dB	±2 dB
Pulse Spacing		
P1 to P2	12 µs (±100 ns) (X Channel) at 50% peak	12 µs (±100 ns) (X Channel) at 50% peak
P1 to P2	30 µs (±100 ns) (Y Channel) at 50% peak	30 µs (±100 ns) (Y Channel) at 50% peak
Reply Pulse Width		
P1 /P2	3.5 µs (±0.5 µs)	3.5 µs (±0.5 µs)
Echo Reply		
Control	On/Off	On/Off
Position	30 nmi (±1 nmi)	30 nmi (±1 nmi)
Amplitude	-11 dB (±1 dB) relative to reply level	-11 dB (±1 dB) relative to reply level
Reply Pulse Rise and Fall Times		
DME Pulses		
Rise Time	2.5 µs (±0.25 µs) (10% to 90%)	2.5 µs (±0.25 µs) (10% to 90%)
Fall Time	2.5 µs (±0.25 µs) (90% to 10%)	2.5 µs (±0.25 µs) (90% to 10%)
TACAN Pulses		
Rise Time	2.0 µs (±0.25 µs) (10% to 90%)	2.5 µs (±0.25 µs) (10% to 90%)
Fall Time	2.5 µs (±0.25 µs) (90% to 10%)	2.5 µs (±0.25 µs) (90% to 10%)
Reply Delay		
T/R X Channel		
Fixed Reply Delay	50 µs (±100 ns)	50 µs (±100 ns)
T/R Y Channel		
Fixed Reply Delay	56 µs (±100 ns)	56 µs (±100 ns)

	AVX-10K	IFR6000/IFR6015
A/A X Channel		
Fixed Reply Delay	62 µs (±100 ns)	62 µs (±100 ns)
A/A Y Channel		
Fixed Reply Delay	74 µs (±100 ns)	74 µs (±100 ns)
Variable Range Delay		
X and Y Channel		
Range	0 to 450.00 nmi	0 to 450.00 nmi
Resolution	0.01 nmi	0.01 nmi
Accuracy	±0.01 nmi	±0.01 nmi
Range Delay		
X and Y Channel		
Preset 1 (DOD)	0, 3, 10, 30, 100, 200, 300, 400 nmi	0, 3, 10, 30, 100, 200, 300, 400 nmi
Preset 2 (AN/ASM-663)	0, 10, 150, 297 nmi	0, 10, 150, 297 nmi
Preset 3 (AN/ARM-184)	0, 50, 100, 150, 200, 250, 300, 350, 400 nmi	0, 50, 100, 150, 200, 250, 300, 350, 400 nmi
Preset 4 (2650/2655)	0, 5, 125, 283 nmi	0, 5, 125, 283 nmi
Resolution	0.01 nmi	0.01 nmi
Accuracy	±0.01 nmi	±0.01 nmi
Variable Range Rate		
X and Y Channel		
Range	0 to 6500 kts	0 to 6500 kts
Resolution	1 kts	1 kts
Accuracy	±0.01 % typical, tested to ±0.5%	±0.01 % typical, tested to ±0.5%
Variable Range Rate		
X and Y Channel		
Preset 1 (DOD)	0, 250 kts (1000 kts in A/A modes)	0, 250 kts (1000 kts in A/A modes)
Preset 2 (AN/ASM-663)	No Rate	No Rate
Preset 3 (AN/ARM-184)	0, 2400 kts	0, 2400 kts
Preset 4 (2650/2655)	No Rate	No Rate
Resolution	1 kts	1 kts
Accuracy	±0.01 % typical, tested to ±0.5%	±0.01 % typical, tested to ±0.5%
Squitter		
T/R Modes	2700 Hz	2700 Hz
A/A Modes	1350 Hz	1350 Hz
Accuracy	±2%	±2%
Distribution	Per MIL STD 291C and ARINC 568	Per MIL STD 291C and ARINC 568
Reply Efficiency		
Range	0 to 100%	0 to 100%
Resolution	1% increments	1% increments
Accuracy	±0.5%	±0.5%
Ident Tone Pulse Pair		
T/R X and T/R Y Selection	Selectable two to four letter code or tone	Selectable four letter code or tone
Frequency	1350 Hz	1350 Hz
Accuracy	±2 Hz	±2 Hz
Equalizer Pulse Pair	Spacing from Ident pair 100 µs ±10 µs	Spacing from Ident pair 100 µs ±10 µs

	AVX-10K	IFR6000/IFR6015
Ident Tone Single Pulse		
A/A X and A/A Y Selection	Selectable two to four letter code or tone	Selectable four letter code or tone
Frequency	1350 Hz	1350 Hz
Accuracy	±2 Hz	±2 Hz
A/A Mode Interrogations		
P1 to P2	12 µs ±0.1 µs (A/A X Channel) @ 50% peak	12 µs ±0.1 µs (A/A X Channel) @ 50% peak
P1 to P2	24 µs ±0.1 µs (A/A Y Channel) @ 50% peak	24 µs ±0.1 µs (A/A Y Channel) @ 50% peak
Interrogation Rate	150 PPS	150 PPS
Accuracy	±5 Hz	±5 Hz
15/135 Hz Bearing Signal		
Modulation Levels: 15 and 135 Hz	20% ±2.5%	20% ±2.5%
Tone Frequency Accuracy	< ±0.2%	< ±0.2%
Distortion	< 2.5%	< 2.5%
Bearing		
Variable Mode	0 to 359.5° in 0.5° increments	0 to 359.5° in 0.5° increments
Accuracy	±0.1°	±0.1°
Preset 1 (DOD)	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°
Preset 2 (AN/ASM-663)	0°, 45°, 180°, 225°	0°, 45°, 180°, 225°
Preset 3 (AN/ARM-184)	0°, 90°, 180°, 337.5°	0°, 90°, 180°, 337.5°
Preset 4 (2650/2655)	90°, 230°, 320°	90°, 230°, 320°
Interrogation Pulse Decoding		
Must Reply nominal code pair spacing	< ±0.5 µs from nominal spacing	< ±0.5 µs from nominal spacing
Must Not Reply nominal code pair spacing	> ±1.0 µs from nominal spacing	> ±1.0 µs from nominal spacing
MRB T/R (X)		
Group	12 pairs of pulses	12 pairs of pulses
Pulse Spacing	12 µs ± 0.1 µs	12 µs ± 0.1 µs
Pulse Pair Spacing	30 µs ± 0.1 µs	30 µs ± 0.1 µs
MRB T/R (X)		
Group	13 single pulses	13 single pulses
Pulse Spacing	30 µs ±0.1 µs	30 µs ±0.1 µs
MRB A/A Beacon (X & Y)		
Group	10 single pulses	10 single pulses
Pulse Spacing	30 µs ±0.1 µs	30 µs ±0.1 µs
ARB T/R (X)		
Group	6 pairs of pulses	6 pairs of pulses
Pulse Spacing	12 µs ± 0.1 µs	12 µs ± 0.1 µs
Pulse Pair Spacing	24 µs ± 0.1 µs	24 µs ± 0.1 µs
ARB T/R (Y)		
Group	13 single pulses	13 single pulses
Pulse Spacing	15 µs ±0.1 µs	15 µs ±0.1 µs

	AVX-10K	IFR6000/IFR6015
Receive Frequency		
Range	1025.00 to 1150.00 MHz	1025.00 to 1150.00 MHz
Resolution	10 kHz	10 kHz
Accuracy	±20 KHz	±20 KHz
ERP		
Range	+47 to +64 dBm	+47 to +64 dBm
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
Antenna Beamwidth	40°	40°
RF I/O Port Peak Pulse Power		
Range	+47 to +64 dBm	+47 to +64 dBm
Resolution	0.1 dB	0.1 dB
Accuracy	±1 dB	±1 dB
Interrogation Pulse Width		
P1 and P2 Pulse Widths		
Range	2.00 to 5.00 µs	2.00 to 5.00 µs
Resolution	1 ns	1 ns
Accuracy	±50 ns	±50 ns
Interrogation Pulse Spacing		
P1 to P2 Spacing	10 to 14 µs (T/R X and A/A X Channel)	10 to 14 µs (T/R X and A/A X Channel)
	22 to 26 µs (A/A Y Channel)	22 to 26 µs (A/A Y Channel)
	34 to 38 µs (T/R Y Channel)	34 to 38 µs (T/R Y Channel)
Resolution	10 ns	10 ns
Accuracy	±20 ns	±20 ns
Interrogation PRF		
Range	1 to 300 Hz	1 to 300 Hz
Resolution	1 Hz	1 Hz
Accuracy	±2 Hz	±2 Hz
A/A Reply Delay		
A/A (X)	60 to 66 µs	60 to 66 µs
A/A (X)	72 to 78 µs	72 to 78 µs
Resolution	10 ns	10 ns
Accuracy	±100 ns	±100 ns

	AVX-10K	IFR6000/IFR6015
TCAS Test		
TCAS Generate		
TCAS Modes	TCAS I C; TCAS II C,S; TAS; E-TCAS C,S	TCAS I C; TCAS II C,S; TAS; E-TCAS C,S
Frequency	1090 MHz	1090 MHz
Accuracy	±10 KHz	±10 KHz
Output Level (Simulated ERP)		
Radiated power at 0dBi UUT ant	-68 dBm typical at 10 nmi range, automatically controlled	-68 dBm typical at 10 nmi range, automatically controlled
Range	-67 to -2 dBm at Antenna Port	-67 to -2 dBm at Antenna Port
Resolution	0.5 dB	0.5 dB
Accuracy	±2 dB	±2 dB
Distance to UUT Antenna	6 to 300 ft with supplied antenna (Beamwidth: 40°)	6 to 300 ft with supplied antenna (Beamwidth: 40°)
RF I/O Port Automatic Mode	-68 dBm @ 10 nmi range (automatically controlled)	-68 dBm @ 10 nmi range (automatically controlled)
Manual Mode Range	-115 to -47 dBm	-115 to -47 dBm
Resolution	0.5 dB	0.5 dB
Accuracy		
-95 to -47 dBm	±1 dB	±1 dB
-115 to -95 dBm	±2 dB	±2 dB
Reply Pulse Spacing		
Mode C		
F1 to F2	20.30 µs (±25 ns)	20.30 µs (±25 ns)
F1 to C1	1.45 µs (±25 ns)	1.45 µs (±25 ns)
F1 to A1	2.90 µs (±25 ns)	2.90 µs (±25 ns)
F1 to C2	4.35 µs (±25 ns)	4.35 µs (±25 ns)
F1 to A2	5.80 µs (±25 ns)	5.80 µs (±25 ns)
F1 to C4	7.25 µs (±25 ns)	7.25 µs (±25 ns)
F1 to A4	8.70 µs (±25 ns)	8.70 µs (±25 ns)
F1 to B1	11.60 µs (±25 ns)	11.60 µs (±25 ns)
F1 to D1	13.05 µs (±25 ns)	13.05 µs (±25 ns)
F1 to B2	14.50 µs (±25 ns)	14.50 µs (±25 ns)
F1 to D2	15.95 µs (±25 ns)	15.95 µs (±25 ns)
F1 to B4	17.40 µs (±25 ns)	17.40 µs (±25 ns)
F1 to D4	18.85 µs (±25 ns)	18.85 µs (±25 ns)
Mode S		
P1 to P2	1.00 µs (±25 ns)	1.00 µs (±25 ns)
P1 to P3	3.50 µs (±25 ns)	3.50 µs (±25 ns)
P1 to P4	4.50 µs (±25 ns)	4.50 µs (±25 ns)
P1 to D1	8.00 µs (±25 ns)	8.00 µs (±25 ns)
D1 to Dn (n = 2 to 112)	1.00 µs times (n- 1) (±25 ns)	1.00 µs times (n- 1) (±25 ns)

	AVX-10K	IFR6000/IFR6015
Reply Pulse Widths		
Mode C		
All Pulses	0.45 µs (±50 ns)	0.45 µs (±50 ns)
Mode S		
P1 through P4	0.50 µs (±50 ns)	0.50 µs (±50 ns)
D1 through D112	0.50 µs (±50 ns), 1 µs chip width	0.50 µs (±50 ns), 1 µs chip width
Reply Modes		
	TCAS I / II Mode C (with altitude reporting)	TCAS I / II Mode C (with altitude reporting)
	TCAS II Mode S formats 0, 11, 16	TCAS II Mode S formats 0, 11, 16
	E-TCAS Mode S formats 0, 4, 5, 16, 20, 21	E-TCAS Mode S formats 0, 4, 5, 16, 20, 21
Reply Pulse Amplitudes		
ATCRBS	±1 dB relative to F1	±1 dB relative to F1
Mode S	±1 dB relative to P1	±1 dB relative to P1
Reply Pulse Rise and Fall Times		
All Modes Rise Time	30 to 100 ns	30 to 100 ns
All Modes Fall Time	30 to 200 ns	30 to 200 ns
Percent Reply		
Range	0 to 100%	0 to 100%
Resolution	1%	10%
Accuracy	±1%	±1%
Reply Delay		
ATCRBS	3.0 µs (±50 ns)	3.0 µs (±50 ns)
Mode S	128 µs (±50 ns)	128 µs (±50 ns)
Range Delay		
Range	0 to 260 nmi	0 to 260 nmi
Resolution	0.1 nmi	0.1 nmi
Accuracy	±0.02 nmi	±0.02 nmi
Range Rate		
Range	-1200 to +1200 kts	-1200 to +1200 kts
Resolution	10 kts	10 kts
Accuracy	10%	10%
Altitude Range		
Range	-1000 to 126,000 ft	-1000 to 126,000 ft
Resolution Mode C	100 ft	100 ft
Resolution Mode S	25 ft	25 ft
Altitude Rate		
Range	-10,000 to +10,000 fpm	-10,000 to +10,000 fpm
Resolution	100 fpm	100 fpm
Accuracy	10%	10%
Squitter		
Control	On / Off	On / Off
Rate	0.8 to 1.2 sec, randomly distributed	0.8 to 1.2 sec, randomly distributed

	AVX-10K	IFR6000/IFR6015
Pulse Spacing		
ATCRBS/Mode C All Call		
S1 to P1	2.0 µs	2.0 µs
Accepts	≤ ±200 ns	≤ ±200 ns
Rejects	(<10% Replies) ≥ ±1.0 µs	(<10% Replies) ≥ ±1.0 µs
P1 to P3	21.0 µs	21.0 µs
Accepts	≤ ±200 ns	≤ ±200 ns
Rejects	(<10% Replies) ≥ ±1.0 µs	(<10% Replies) ≥ ±1.0 µs
P1 to P4	23.0 µs	23.0 µs
Accepts	≤ ±200 ns	≤ ±200 ns
Rejects	(<10% Replies) ≥ ±1.0 µs	(<10% Replies) ≥ ±1.0 µs
Mode S		
P1 to P2	2.0 µs	2.0 µs
Accepts	≤ ±200 ns	≤ ±200 ns
Rejects	(< 10% Replies) ≥ ±1.0 µs1.0 µs	(< 10% Replies) ≥ ±1.0 µs1.0 µs
P1 to SPR	4.75 µs	4.75 µs
Accepts	≤ ±200 ns	≤ ±200 ns
Rejects	(<10% Replies) ≥ ±1.5 µs	(<10% Replies) ≥ ±1.5 µs
Suppression		
ATCRBS (P2 or S1)	> 0.5dB above level of P1 < 10% Replies	> 0.5dB above level of P1 < 10% Replies
TCAS Receive Frequency		
Range	1029.900 to 1030.100 MHz	1029.900 to 1030.100 MHz
Resolution	1 kHz	1 kHz
Accuracy	±10 kHz	±10 kHz
TCAS Broadcast Interval		
Range	1.0 to 12.0 sec	1.0 to 12.0 sec
Resolution	0.1 sec	0.1 sec
Accuracy	±0.2 sec	±0.2 sec
ERP (at 1030 MHz)		
ATCRBS		
Range	+43 to +58 dBm (20 to 631 W)	+43 to +58 dBm (20 to 631 W)
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
Mode S		
Range	+43 to +58 dBm (20 to 631 W)	+43 to +58 dBm (20 to 631 W)
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
RF I/O Port Peak Pulse Power (at 1030 MHz)		
ATCRBS		
Range	+43 to +58 dBm (20 to 631 W)	+43 to +58 dBm (20 to 631 W)
Resolution	0.1 dB	0.1 dB
Accuracy	±1 dB	±1 dB

	AVX-10K	IFR6000/IFR6015
Mode S		
Range	+43 to +58 dBm (20 to 631 W)	+43 to +58 dBm (20 to 631 W)
Resolution	0.1 dB	0.1 dB
Accuracy	±1 dB	±1 dB
UAT Test		
UAT Generate Frequency		
Reply Frequency		
Range	978 MHz	978 MHz
Accuracy	±10 kHz	±10 kHz
Output Level		
ANT Port, Radiated power at 0 dBi UUT antenna	-85 dBm (Automatically controlled)	-85 dBm (Automatically controlled)
Range	-67 to -2 dBm at Antenna port	-67 to -2 dBm at Antenna port
Resolution	0.5 dB	0.5 dB
Accuracy	±2 dB	±2 dB
Distance to UUT Antenna	6 to 150 ft with Supplied Antenna	6 to 150 ft with Supplied Antenna
RF I/O Port		
Automatic mode	-85 dBm	-85 dBm
Accuracy	±1 dB	±1 dB
Modulation		
Type	BPFSK per RTCA DO-282B	BPFSK per RTCA DO-282B
Deviation	±312.5 kHz typical	±312.5 kHz typical
UAT Receive Frequency		
Range	977.96 to 978.04 MHz	977.96 to 978.04 MHz
Resolution	1 kHz	1 kHz
Accuracy	±10 kHz	±10 kHz
ERP		
Range	+35 to +57 dBm (3.16 to 500 watts)	+35 to +57 dBm (3.16 to 500 watts)
Resolution	0.1 dB	0.1 dB
Accuracy	±2 dB	±2 dB
RF I/O (@978 MHz)		
Range	+35 to +57 dBm (3.16 to 500 watts)	+35 to +57 dBm (3.16 to 500 watts)
Resolution	0.1 dB	0.1 dB
Accuracy	±1 dB	±1 dB
VSWR Test		
Method	VSWR or Return Loss	No Facility
Sweep Range	10MHz to 1250 MHz	No Facility
Measurement Range	1 to 7 for SWR	No Facility
Accuracy		
SWR < 3:1	±0.2, ±20% of reading	No Facility
SWR < 3:1	±0.3, ±20% of reading	No Facility

	AVX-10K	IFR6000/IFR6015
DTF Test		
Measurement Range	3 to 300 ft, 1 to 100 M	No Facility
Accuracy	±1.5 ft +1% of distance	No Facility
Physical Characteristics		
Vibration	MIL PRF 28800 Class 2	MIL PRF 28800 Class 2
Shock, Functional	MIL PRF 28800 Class 2	MIL PRF 28800 Class 2
Transit Drop	MIL PRF 28800 Class 2	MIL PRF 28800 Class 2
Bench Handling	MIL PRF 28800 Class 2	MIL PRF 28800 Class 2
Explosive Atmosphere	MIL STD 810F method 511.4	MIL STD 810F method 511.4
Drip Proof	MIL PRF 28800 Class 2	MIL PRF 28800 Class 2
Safety Compliance	EN 61010-1, UL-61010B-1, CSA 22.2 No 61010-1	EN 61010-1, UL-61010B-1, CSA 22.2 No 61010-1
EMC	EN 61326	EN 61326
Size	12 x 5.3 x 3.75 inches	11.2 x 9.1 x 2.7 inches
Volume	240 cubic inches	275 cubic inches
Weight	7 lbs	8 lbs
Battery Operation	> 8Hrs	> 6Hrs
Operating Temperature	-20°C to +45°C	-20°C to +45°C
	Intermittent used to +55°C, protected by automatic shutdown	Intermittent used to +55°C, protected by automatic shutdown
AC Operation	100-250 VAC 47-63 Hz	100-250 VAC 47-63 Hz
	+ 400 Hz operation via supplied external DC power supply/charger	+ 400 Hz operation via supplied external DC power supply/charger
Other		
Antenna Maximum Input Level	10 W peak	10 W peak
	1/2 W average	1/2 W average
RF I/O Port Maximum Input Level	4 kW peak	4 kW peak
	10 W average	10 W average
VSWR	< 1 .3:1	< 1 .3:1

VIAVI Solutions

Contact Us +1 800 835 2352
avcomm.sales@viavisolutions.com

To reach the VIAVI office nearest you, visit viavisolutions.com/contact.

avx10k-ifr6000-ds-avi-nse-ae
30193478 901 0524