

PROVEN

### Quality, Dependability and Reliability

Avtech's 7522 VHF panels tune both ARINC 500 & 700 analog and digital radios, affording mixed-fleet airlines part commonality. One part number for both radio types reduces costly part number tracking and maintenance, while providing spares commonality and seamless upgrades. Able to tune both 8.33kHz and 25kHz radios, the 7522 offers optimum versatility.



#### 8.33kHz VHF RADIO TUNING

Offered with a full five year equipment warranty, the 7522 series is robust. Avtech pushed performance to the limit - and then some by using Highly Accelerated Life Testing (HALT), where ever increasing levels of stress were applied (thermal, vibration, and electrical) until failure. Once the failure was determined, it was fixed, then sent back to HALT, resulting in a very rugged design.

- Optical encoders prevent incorrect frequency selection
- "Spill Proof Design" Passes rigorous coffee spill test
- A premium LCD driver is used which prevents damage to expensive displays.
- One part number tunes both ARINC 500 and 700 series radios
- Can be pin-programmed to tune either 25kHz or 8.33kHz radios
- Highly reliable, includes a five year equipment warranty
- Design has been subjected to a Highly Accelerated Life Test to weed out design defects

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**avtech**   
*Ideas That Fly*  
An Aviation Technologies, Inc. Company

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## RTCA DO-160C Environmental Qualifications

Environment	ARINC 716	ARINC 566A	Avtech Test Category	Comments
Temperature and Altitude	A1	G	A2	<b>More Severe</b> - CAT A2 increases High Operating Temp to +70 C from +55C
Temperature Variation	C	X	C	Similar
Humidity	A	A	A	Similar
Shock	A	X	A	Similar
Vibration	K or A	K	B and M	Both categories tested
Explosion	X	X	X	Similar
Waterproofness	X	X	X	<b>More Severe</b> - Unit "coffee" tested using sugar solution
Hydraulic Fluid	X	X	X	Similar
Sand and Dust	X	X	X	Similar
Fungus	X	X	F	Similar
Salt Spray	X	X	X	Similar
Magnetic Effect	X	X	Z	<b>More Severe</b> - Max deflection less than 0.3 meters
Power Input	A	X	Z	<b>More Severe</b> - Surge tested to 80 Volts vs 44.9 Volts
Voltage Spike	A	X	A	Similar
AF Susceptibility	A	X	A	Similar
Induced Susceptibility	A	X	Z	<b>More Severe</b> - Interference free a requirement vs interference free desirable
RF Susceptibility	A	A	U	<b>More Severe</b> - HIRF Capable - 20 v/M 150 v/M pulsed
RF Emission	A	A	A	Similar
Lightning Induced Transient Susceptibility	N/A	N/A	XXC2	<b>More Severe</b> - Tested vs not tested
Lightning Direct Effects	N/A	N/A	X	<b>More Severe</b> - Tested vs not tested
Icing	N/A	N/A	X	Similar

Configurations Available	
Part Number	Description
7522-1	Gray, one knob
7522-1-1	Brown, one knob
7522-1-2	Gray, two knob
7522-1-3	Brown, two knob
7522-1-4	Black, one knob
7522-1-5	Black, two knob
7522-1-8	Gray, 1 knob, test switch
7522-1-9	Gray, 2 knob, test switch
7522-1-10	Brown, 2 knob, test switch
7522-1-11	Gray, 2 knob, test switch

