

3.3. EUT'S TECHNICAL SPECIFICATIONS

TRANSMITTER	
Equipment Type:	Portable
Intended Operating Environment:	[x] Marine [x] Commercial & industrial
Power Supply Requirement:	7.2 Vdc batteries <ul style="list-style-type: none"> • Battery Pack Model BP-226 for Type AA Alkaline batteries or • Li Ion Rechargeable Battery Pack Model BP-227
RF Output Power Rating:	5 Watts (High), 3 Watts (Mid) and 1 Watt (Low)
Operating Frequency Range:	156.025-157.425 MHz (Marine) 146-174 MHz (General)
RF Output Impedance:	50 Ohms
Channel Spacing:	25 kHz & 12.5 kHz
Occupied Bandwidth (99%):	11.9 kHz for 25 kHz Channel Spacing 7.5 kHz for 12.5 kHz Channel Spacing
Emission Designation*:	<ul style="list-style-type: none"> • 11K0F3E, 11K0G3E, 16K0F3E & 16K0G3E (General VHF) • 16KF3E and 16K0G3E (Marine)
Antenna Connector Type:	SMA

* For an average case of commercial telephony, the Necessary Bandwidth is calculated as follows:

For FM Voice Modulation:

* Channel Spacing = 12.5 KHz, D = 2.5 KHz max, K = 1, M = 3 KHz
 $B_n = 2M + 2DK = 2(3)/2 + 2(2.5)(1) = \mathbf{11\ KHz}$
 emission designation: 11K0F3E

* Channel Spacing = 25 KHz, D = 5 KHz max, K = 1, M = 3 KHz
 $B_n = 2M + 2DK = 2(3) + 2(5)(1) = \mathbf{16\ KHz}$
 emission designation: 16K0F3E