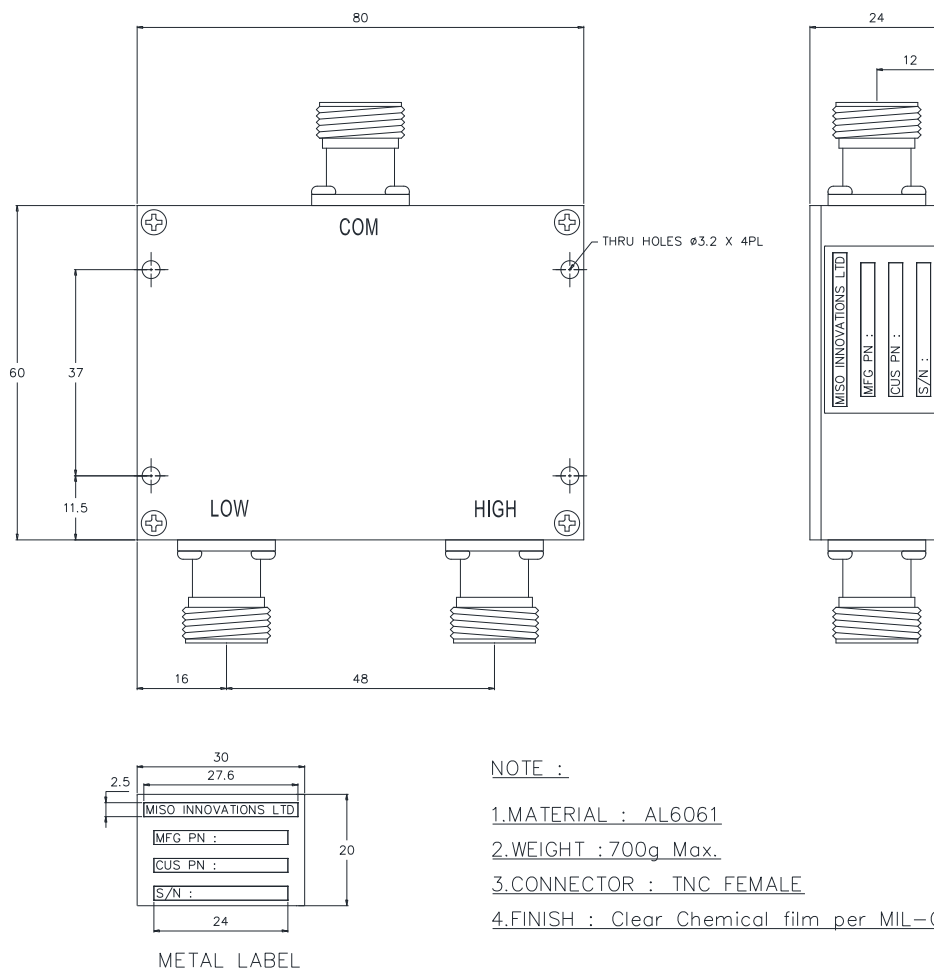


2018. 02. 05.

PRODUCT SPECIFICATION FOR INFORMATION

- Customer : ELTA
- Product Name : DIPLEXER
- Part No : MDP-20/425-550/3000BP415/2450M



NOTE :

- 1.MATERIAL : AL6061
- 2.WEIGHT : 700g Max.
- 3.CONNECTOR : TNC FEMALE
- 4.FINISH : Clear Chemical film per MIL-C5541, Class 3

1. ELECTRICAL SPECIFICATION

Parameter	Specification		Remark
Frequency Range	Low channel	High channel	
	20~425MHz	550~3000MHz	
Insertion Loss	2.0dB max @ Pass band 3.0dB Max @ 470MHz & 530MHz 5.0dB Max @ 500MHz[Cross-over point]		I/L at Cross over point could be up to 6dB Max.
Return Loss	10.0dB min		
Rejection	35dB min @ 20~425MHz 35dB min @ 550~3000MHz		
Power Rating	1W CW		
Impedance	50 Ω		
Operating Temp.	-20 ~ +70°C		
SIZE	80.0 X 60.0 X 24.0mm without connectors		

2. ENVIRONMENTAL QUALIFICATION

2.1 Temperature

The equipment shall not suffer any physical damage or any degradation of its performance when and after being exposed to following ambient temperature conditions IAW MIL-STD-810F method 501.4, method 502.4.

EQUIPMENT LOCATION	OPERATING TEMPERATURE	NON-OPERATING TEMPERATURE
Passengers Cabin (controlled pressurized zone)	+5 °C + +40 °C	-20 °C + +70 °C

2.2 Altitude

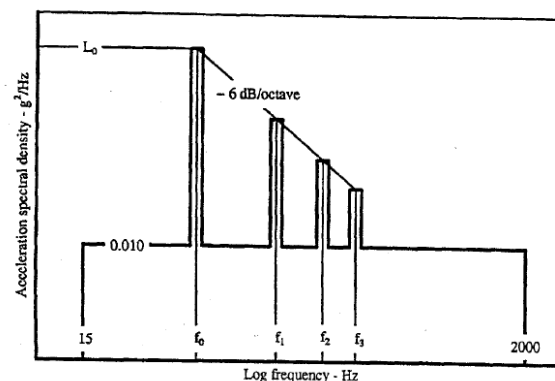
The equipment shall not suffer any physical damage or any degradation of its performance when and after being exposed to following altitude conditions IAW MIL-STD-810F method 500.4.

EQUIPMENT LOCATION	OPERATING ALTITUDE
Passengers Cabin (controlled pressurized zone)	10,000 feet

2.3 Random Vibration

The equipment shall not suffer any physical damage or any degradation of its performance when and after being exposed to random vibration conditions IAW MIL-STD-810F, method 514.5, figure 514.5C-9 (see figure below), with following parameters: F0=82 Hz and L0= 0.1 for equipment located FWD of propeller and L0=0.3 for equipment AFT of propeller.

For endurance vibration use the same profile with levels of 135% values



2.4 Mechanical Shock

2.4.1 Operational Shock

The equipment shall not suffer any physical damage or any degradation of its performance, when & after being subjected to 18 shocks, 3 in each opposite direction along each of 3 mutually perpendicular axes. Each shock impulse shall have a time duration of 11 milliseconds, (half sine pulse), and the acceleration peak value of 6 g as defined by RTCA DO-160C Section 7, Paragraph 7.2.

2.4.2 Crash safety Shock (Impulse)

The equipment shall remain in place and its mounting attachments shall not be damaged, when subjected to 6 shocks, consisting of 1 shock in each opposite direction along each of three (3) mutually perpendicular axes.

Each shock input will have time duration of 11 msec (half sine pulse), and the acceleration peak value of 15 g, as defined by RTCA DO-160C Section 7, Paragraph 7.3.1.

2.4.3 Crash Safety Shock (Sustained)

The equipment shall remain in place and its mounting attachments shall not be damaged, when subjected to a minimum of three seconds of test acceleration as defined by RTCA DO-160C section 7, paragraph 7.3.2.2 (12G in very direction).