

7-376

CHELTON

Diplexer 30 MHz - 88 MHz / 118 MHz - 512 MHz

The 7-376 is a VHF FM/VHF AM & UHF diplexer that operates over the frequency ranges 30 to 88 MHz and 118 to 512 MHz. It is intended for use in general airborne applications.

The LCU takes frequency information from the radio and The diplexer comprises a low pass and a high pass filter connected in parallel at the input terminal. The electrical assembly is housed in a machine, aluminium alloy box, enclosed by an aluminium alloy baseplate. Three mounting holes provide for attachment to the mounting surface.



ELECTRICAL

Frequency Range (MHz)	30 - 88 MHz 118 - 512 MHz
Power Rating	50W CW (Max)
Impedance	50 (Ω)
VSWR	30- 88 MHz \leq 1.75:1 118-512 MHz \leq 1.75:1
Insertion Loss	30- 80 MHz \leq 1 dB 80- 88 MHz \leq 1.25 dB 118-125 MHz \leq 1.25 dB 125-512 MHz \leq 1 dB
Isolation	118-512 MHz \leq 30 dB 30- 88 MHz \leq 30 dB

MECHANICAL

Dimensions (LxWxH)	160.5 x 78 x 25 (mm)
Mass	0.5 (kg)
Connector	VHF-FM: N-Type Female AM-UHF: N-Type Female Signal I/P: N-Type Female

ENVIRONMENTAL

Environmental	MIL-E-5400T
Continuous Operating Temperature	-55 to +70 ($^{\circ}$ C)
Altitude	35,000 (ft)
Vibration	MIL-STD-810E Method 514.4, Procedure I, Category 4

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