

# 7-373

# CHELTON

## Diplexer

The 7-373 diplexer operates over the frequency ranges 30 MHz to 162.1 MHz and 225 MHz to 410 MHz.

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 machined, aluminium alloy box, enclosed by an aluminium alloy baseplate. Three mounting holes provide for attachment to the mounting surface.



### ELECTRICAL

<b>Frequency</b>	30 MHz - 162.1 MHz 225 MHz - 410 MHz
<b>Power Rating</b>	100 W CW (maximum)
<b>Impedance</b>	50 ohm (nominal)
<b>VSWR</b>	≤ 1.5:1
<b>Insertion Loss</b>	≤ 1 dB
<b>Isolation</b>	≥ 65 dB
<b>Connectors</b>	I/P: N Type Female VHF O/P: N Type Female UHF O/P: N Type Female

### MECHANICAL

<b>Dimensions</b>	160.5 mm x 78.0 mm x 25.0 mm (maximum)
<b>Weight</b>	0.5 kg (maximum)
<b>Mounting</b>	3 holes fixed location

### ENVIRONMENTAL

<b>High Temperature</b>	MIL-STD-810E, Method 501.3, Procedures I and II Operational: +70°C Storage: +85°C
<b>Low Temperature</b>	MIL-STD-810E, Method 502.3, Procedures I and II Operational: -54°C Storage: -57°C
<b>Altitude</b>	MIL-STD-810E, Method 500.3, Procedures I and II 10668 m
<b>Acceleration</b>	MIL-STD-810E, Method 513.4, Procedure I 13.5 g all axes
<b>Shock</b>	MIL-STD-810E, Method 516.4, Procedures I and V Functional: 20 g, 11 ms, sawtooth Crash Hazard: 40 g, 11 ms, sawtooth
<b>Vibration</b>	MIL-STD-810E, Method 514.4, Procedure I, Category 4
<b>Temperature Shock</b>	MIL-STD-810E, Method 503.3, Procedure I -57°C to +85°C
<b>Rain</b>	MIL-STD-810E, Method 506.3, Procedure I
<b>Humidity</b>	MIL-STD-810E, Method 507.3, Procedure III
<b>Salt Fog</b>	MIL-STD-810E, Method 509.3, Procedure I
<b>Fungus</b>	MIL-STD-810E, Method 508.4
<b>Magnetic Effect</b>	BS 3G 100, Pt 2, Sect 2 Less than 0.3 m

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Diplexer

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