



## **Balun Specification PN:530900/530910 rev1.0**

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### **Introduction**

Wavecrest offers 3 balun solutions which differ based on the intended application. Our current Balun offerings are targeted at either the Fiber Channel/Gigabit Ethernet market, or, the 50 $\Omega$  terminated SMA based market. The basic difference between the three solution is the termination on the input and the connector on the input. The three balun options are as follows: Dual Fibre Channel Balun – DB9 Male (DFCB-M), Dual Fibre Channel Balun – DB9 Female (DFCB-F) and a 50 $\Omega$  to 50 $\Omega$  Balun.

*Please note, all specifications are subject to change. Please see your local Wavecrest representative for the latest information.*

### **50 $\Omega$ to 50 $\Omega$ Balun Specifications**

<b>Bandwidth:</b>	200kHz to 3GHz
<b>Insertion Loss (Nominal):</b>	8dB
<b>Propagation Delay (Nominal):</b>	.6ns
<b>Maximum Input Voltage(50ns Duration):</b>	5000V
<b>Common Mode Rejection Ratio:</b>	28dB
<b>Port Impedance (all three ports):</b>	50 $\Omega$





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### **Dual Fibre Channel Balun – Male (DBFC-M) Specifications**

<b>Bandwidth:</b>	10kHz to 2GHz
<b>Insertion Loss (Nominal):</b>	6.5dB
<b>Propagation Delay (Nominal):</b>	.98ns
<b>Maximum Input Voltage(50ns Duration):</b>	1000V
<b>Common Mode Rejection Ratio:</b>	TBD
<b>Port Impedance (DB9 port):</b>	150Ω
<b>Port Impedance (SMA port):</b>	50Ω



### **Dual Fibre Channel Balun – Female (DBFC-F) Specifications**

<b>Bandwidth:</b>	10kHz to 2GHz
<b>Insertion Loss (Nominal):</b>	6.5dB
<b>Propagation Delay (Nominal):</b>	.98ns
<b>Maximum Input Voltage(50ns Duration):</b>	1000V
<b>Common Mode Rejection Ratio:</b>	TBD
<b>Port Impedance (DB9 port):</b>	150Ω
<b>Port Impedance (SMA port):</b>	50Ω





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### **DB9 FIBRE CHANNEL BALUN**



### **MOLEX DB9 CABLE**

