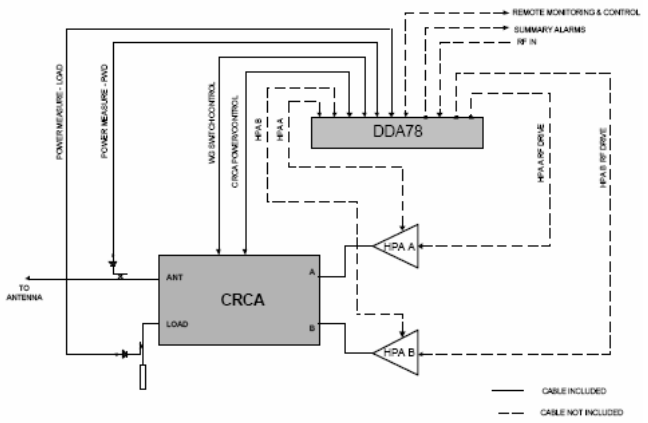
DrawCom Compact Redundancy Combiner Assembly is a simple cost effective alternative to the more traditional VPC system.

The CRCA, together with the DDA78 controller, facilitate automatic redundancy in a two amplifier phase combining system. Should one of the amplifiers fail, the CRCA is configured to allow the functional amplifier to deliver its output power to the antenna port with minimal loss whilst the failed amplifier is routed to a dump load. CRCA assemblies can be configured to suit custom requirements.

- FULLY INTEGRATED WIDE BAND PHASE COMBINER FOR SNGs
- LOW TRANSMIT PATH LOSS IN BOTH SINGLE AMPLIFIER AND PHASE COMBINING MODES
- LOCAL OR REMOTE CONTROL
- CUSTOM PACKAGING DESIGN SERVICE
- WEATHERPROOFED RF UNIT
- INTEGRAL COMBINER, COUPLERS, DETECTORS AND LOAD

SATCOMS Compact Redundancy Combiner Assembly

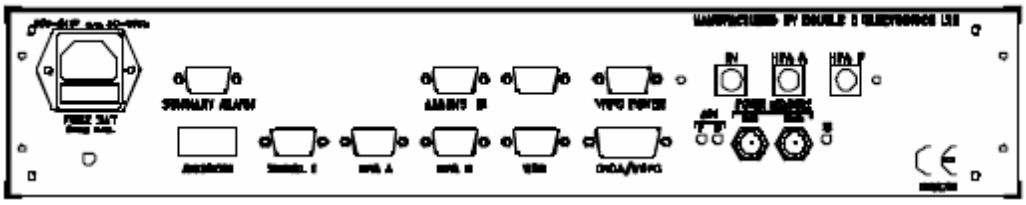
DDA78 CONTROLLER SPECIFICATIONS	
Size:	19” rack, 2U high, 360mm deep (excluding connectors)
Operating Voltage:	100 to 240V a.c.
Host Serial Interface:	4-wire RS-422/RS-485 supports “Printable ASCII” and “STX/ETX” protocols
Automatic Switching:	Configurable delay before switching (200msec and 2 second de-bounce)
Features:	LOCAL/REMOTE mode MANUAL/AUTO mode Laminated front mimic panel Integral coaxial power splitter, isolators and phase shifter HPA muting Antenna/Load relative power indicator



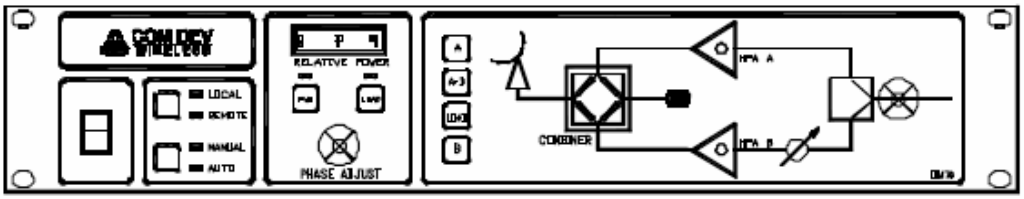
CRCA & DDA78 SYSTEM CONFIGURATION

Level 14, 350 Collins Street, Melbourne 3000 Victoria Australia ACN 102 832 495
Tel +61 3 9604 6900 Fax +61 3 9604 6999 Email info@drawcom.com.au www.drawcom.com.au

SATCOMS Compact Redundancy Combiner Assembly *(cont.)*

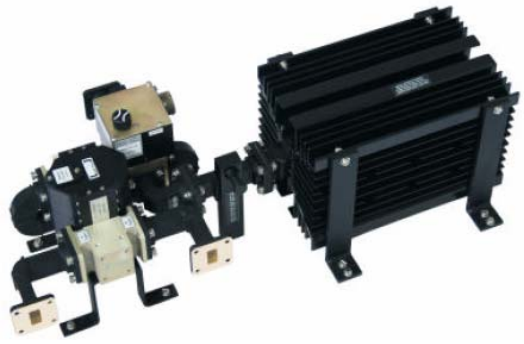


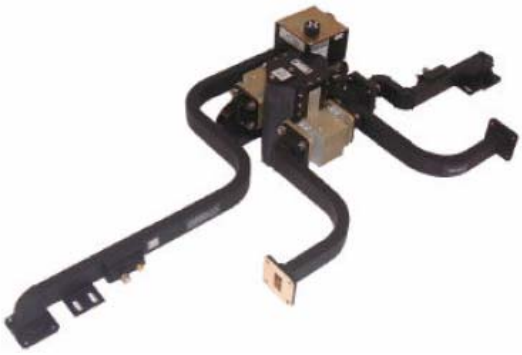
REAR PANEL LAYOUT



FRONT PANEL LAYOUT

CRCA SPECIFICATIONS (WITHOUT INTERCONNECTING WAVEGUIDE)			
	MODEL No. 137CRCA	**MODEL No. 75CRCA**	**MODEL No. 62CRCA**
Frequency:	5.85 - 6.45 GHz	12.75 - 14.50 GHz	17.30 -18.40 GHz
Input Return Loss:	23dB min.	23dB min.	23dB min.
Insertion Loss	0.20dB max.	0.35dB max.	0.35dB max.
Input Isolation **- Combining Mode:** **- Redundant Mode:**	25dB min 40dB min.	25dB min 40dB min.	25dB min 40dB min.
Combined Input Power:	2.0KW max.	1.5KW max.	1.5KW max.
Combining to Redundant Mode Switching Time:	8 seconds max.	4 seconds max.	4 seconds max
Operating Temperature Range	-30 to +70°C	30 to +70°C	30 to +70°C





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