

# WELLINGTON VHF GROUP Inc



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## Microwave Catalog v0.6

19 June 2005

Please Contact Leon Toorenburg ZL2AOC [leon@surveylab.co.nz](mailto:leon@surveylab.co.nz) for orders

Phone +64 21 356688

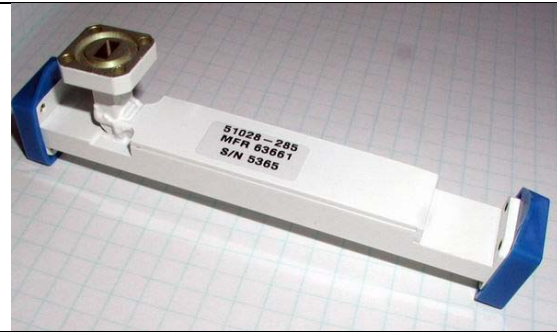
Prices in NZ dollars - Postage and Packing extra

When ordering, please quote Item Number and Quantity.

<b>ITEM No</b>	<b>1</b>	
<b>Description</b>	<b>Microwave Wave Guide Relay</b>	
Frequency	26.5 - 40GHz	
Insertion loss	0.25dB Max	
isolation	50dB Min.	
Connectors	WR28	
Manufacturer	Relcomm	
Model Number	RDW-SR002	
URL	<a href="http://www.relcommtech.com/news.html">http://www.relcommtech.com/news.html</a>	
	New - unused – original packing	
Price	\$80	

<b>ITEM No</b>	<b>2</b>	
<b>Description</b>	<b>Microwave Wave guide Circulator</b>	
Frequency	25.0-25.8 GHz >20 dB return loss 16.25-26 GHz >12 dB return loss	
	WR42 (26.5 – 40 GHz)	
	25 x 25 x 30mm	
Manufacturer	GHz (Canada)	
Model Number	A6047 Rev 14	
	New - unused – original packing	
Price	\$10	

<b>ITEM No</b>	<b>3</b>
<b>Description</b>	<b>Microwave Directional coupler</b>
Frequency	?
Coupling	?
Wave guide	WR28 (26.5 – 40 GHz)
Manufacturer	
Model Number	
URL	
	New - unused – original packing
Price	\$10





<b>ITEM No</b>	<b>4</b>
<b>Description</b>	<b>SMA (f) to WG42 transition with filter</b>
Frequency	Tuned around 19.5 GHz
	4 pole filter
	has right angle
Waveguide	WR42 (18 – 26.5 GHz)
Manufacturer	incl GHz (Canada)
Model Number	
URL	
	New - unused – original packing
Price	\$8

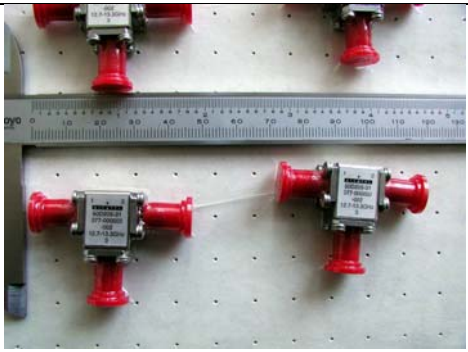


<b>ITEM No</b>	<b>5</b>
<b>Description</b>	<b>SMA (f) to WG42 transition with filter</b>
Frequency	Tuned around 15 GHz
	4 pole filter
	right angle
Waveguide	WR62 (12.4 - 18 GHz)
Manufacturer	incl GHz (Canada)
URL	
	New - original packing
Price	\$8

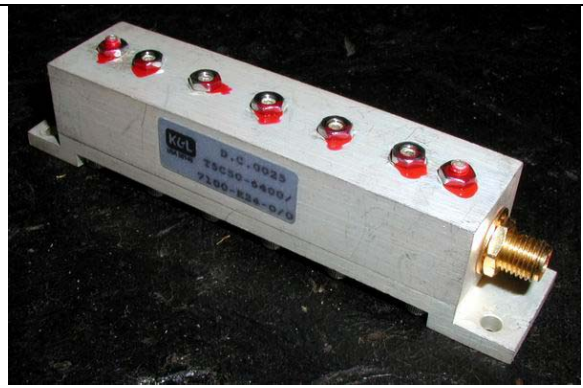


<b>ITEM No</b>	<b>6</b>	
<b>Description</b>	<b>Microwave filter</b>	
Frequency	tuned to 12.8 GHz	
	5 pole	
	190 mm long	
	WR62 (12.4 - 18 GHz) with SMA(f) connectors	
Manufacturer	GHz (Canada)	
Model Number	A9797-2 rev1	
	New - unused – original packing	
Price	\$10	

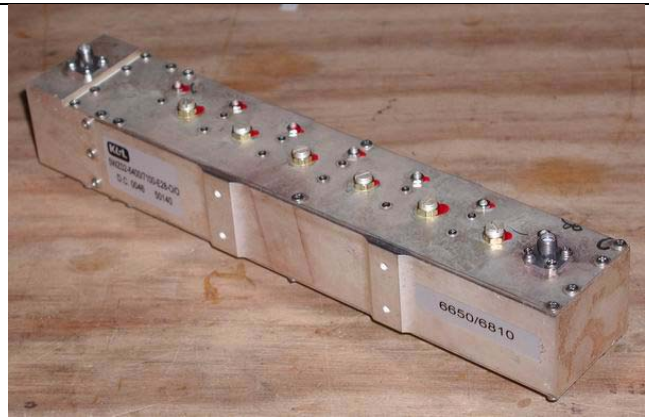
<b>ITEM No</b>	<b>7</b>	
<b>Description</b>	<b>Microwave filter</b>	
Frequency	13.129 GHz	
	5 pole	
	WR62 (12.4 - 18 GHz) with SMA(f) connectors	
	128 mm long	
Manufacturer	GHz (Canada)	
Model Number	A10022-5 Rev 0	
	New - unused – original packing	
price	\$10	

<b>ITEM No</b>	<b>8</b>	
<b>Description</b>	<b>Microwave Circulator</b>	
Frequency	12.7 – 13.3 GHz	
	SMA fff	
Manufacturer	Alcatel	
Model Number	60D205-31	
URL	<a href="http://www.ferrocom.com/coax3.htm">http://www.ferrocom.com/coax3.htm</a>	
	New - unused – original packing	
Price	\$10	

<b>ITEM No</b>	<b>9</b>
<b>Description</b>	<b>Microwave Filter (sma)</b>
Frequency	various 6 – 7 GHz
Length	100mm
	SMA ff
Manufacturer	K+L microwave
Model Number	T5C50-6400/7100
URL	<a href="http://www.klmicrowave.com/ecommerce/viewproduct.asp?productid=141">http://www.klmicrowave.com/ecommerce/viewproduct.asp?productid=141</a>
	New - unused – original packing
Price	\$10



<b>ITEM No</b>	<b>10</b>
<b>Description</b>	<b>Microwave Duplexer SMA to Waveguide</b>
Frequency	7.1 / 6.4 GHz to WR137 (5.85 – 8.2 GHz)
Length	250mm
	SMA F-F-F
Manufacturer	K+L microwave
Model Number	
URL	<a href="http://www.klmicrowave.com/ecommerce/files/Waveguide.pdf">http://www.klmicrowave.com/ecommerce/files/Waveguide.pdf</a>
Price	\$15
	New - unused – original packing



<b>ITEM No</b>	<b>11</b>
<b>Description</b>	<b>Microwave Duplexer</b>
Frequency	typ 2.35 / 2.47 GHz
	Passbands 5 MHz
	SMA fff
Manufacturer	RFS
Model Number	MD-24-1M
URL	<a href="http://www.rfsworld.com/RFSGlobal/">http://www.rfsworld.com/RFSGlobal/</a>
Price	\$200
	New - unused – original packing – comes with manufacturers test certificate



<b>ITEM No</b>	<b>12</b>	
<b>Description</b>	<b>Digital Microwave Corporation 7.1 GHz Transverter</b>	
Frequency	7.1 GHz to IF	
	Separate tx and rx modules	
	200 x 130 x 60 mm	
Manufacturer	DMC	
Model Number		
URL		
Price	\$30	
	Good for hard to get parts, or convert to 5.6 GHz transverter	

These modules are great for finding hard to get high performance microwave parts

TX Intermediate Frequency is 70 MHz

RX Intermediate Frequency is 140 MHz

This module is recommended for 5.6 GHz transverters over the Serriacom as it is single conversion and exhibits less oscillator phase noise.

Many amplifiers, oscillators, filters, Hittite Mixers

10.000 MHz TCXO,

HMC168C8 (x2) 4.5 – 8 GHz doubly balanced mixer

[http://www.hittite.com/product\\_info/product\\_specs/mixers/hmc168c8.pdf](http://www.hittite.com/product_info/product_specs/mixers/hmc168c8.pdf)

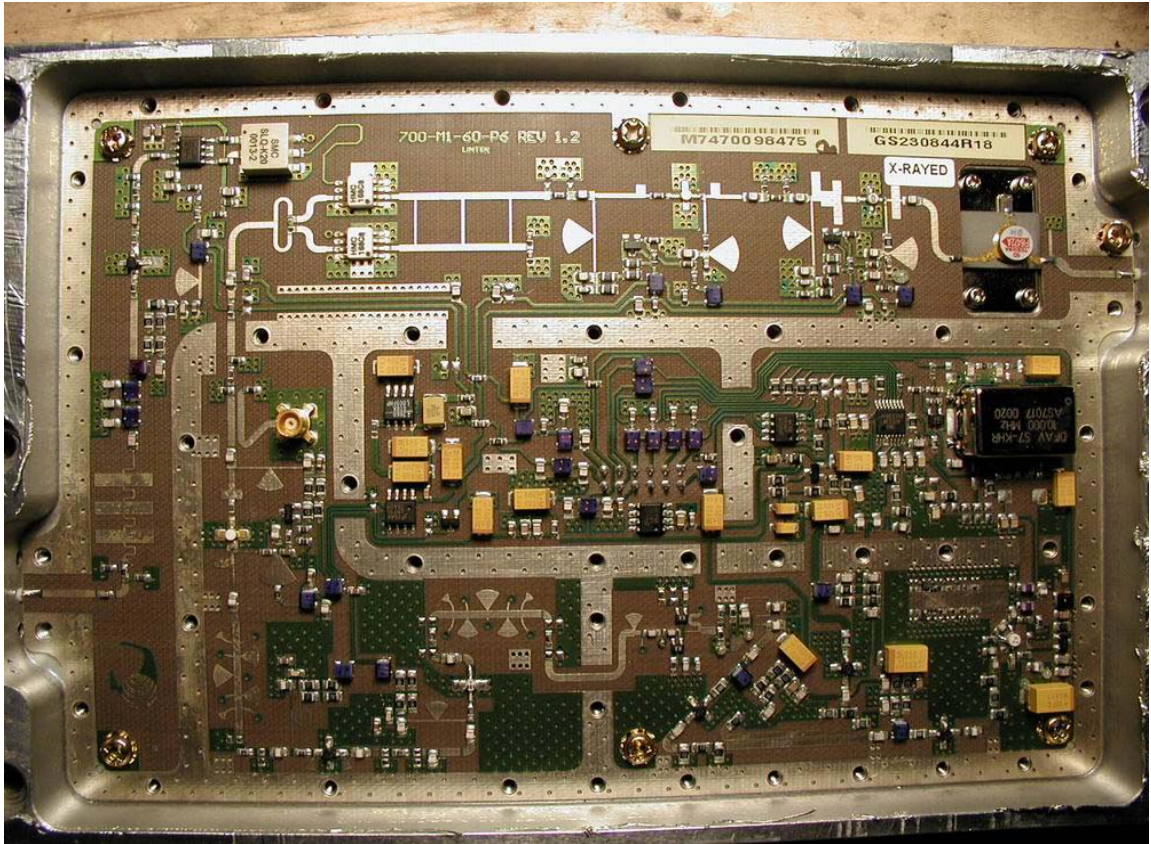
Toshiba circulator

[http://www.semicon.toshiba.co.jp/eng/prd/common/pdf/gene2003\\_19microwave.pdf](http://www.semicon.toshiba.co.jp/eng/prd/common/pdf/gene2003_19microwave.pdf)

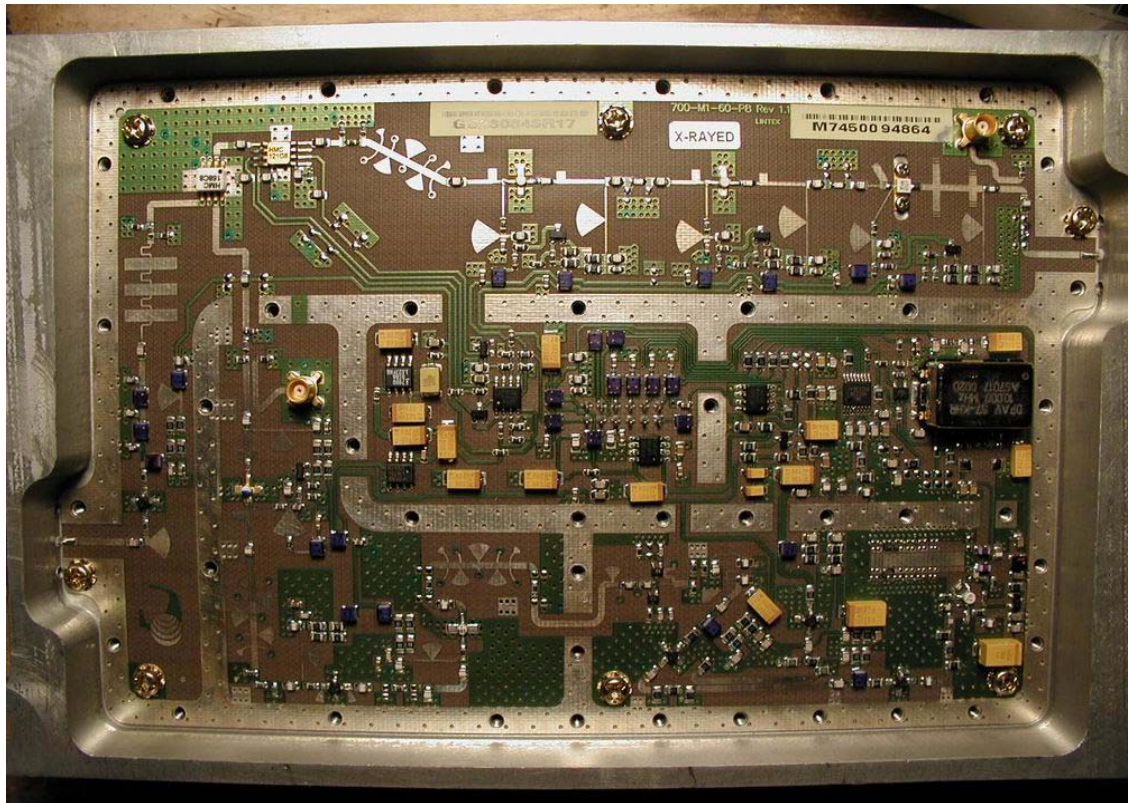
SMC SIQ-K20 (50 – 100 MHz 90 degree hybrid )

<http://www.synergymwave.com/products/hybrids/hybridpdf/Hybrid90degree.pdf>

Downconvert Module



Upconvert Module



ITEM No	13	
Description	SerriaCom 7.1 GHz Transverter (dual conversion)	
Frequency	7.1 GHz to IF	
	Separate tx and rx modules	
	180 x 230 x 80	
Manufacturer	Serria com	
Model Number		
URL		
price	\$30	
	Good for parts	

Dual conversion Microwave Up/Down converter

Great for parts: Zcomm VCO's: Microwave amplifiers and mixers

Z-comm CLV1360, V603SE01, V802SE06

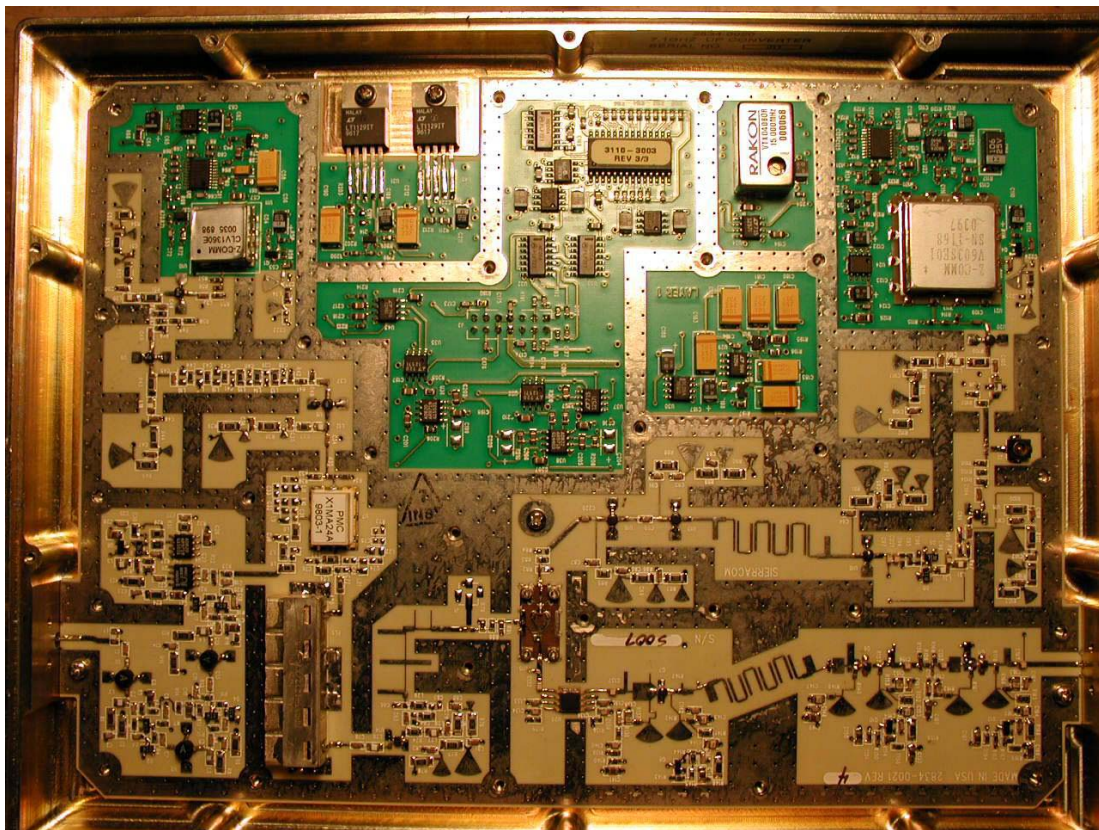
SMC CRO-S\_A46

RAKON VTX04080R

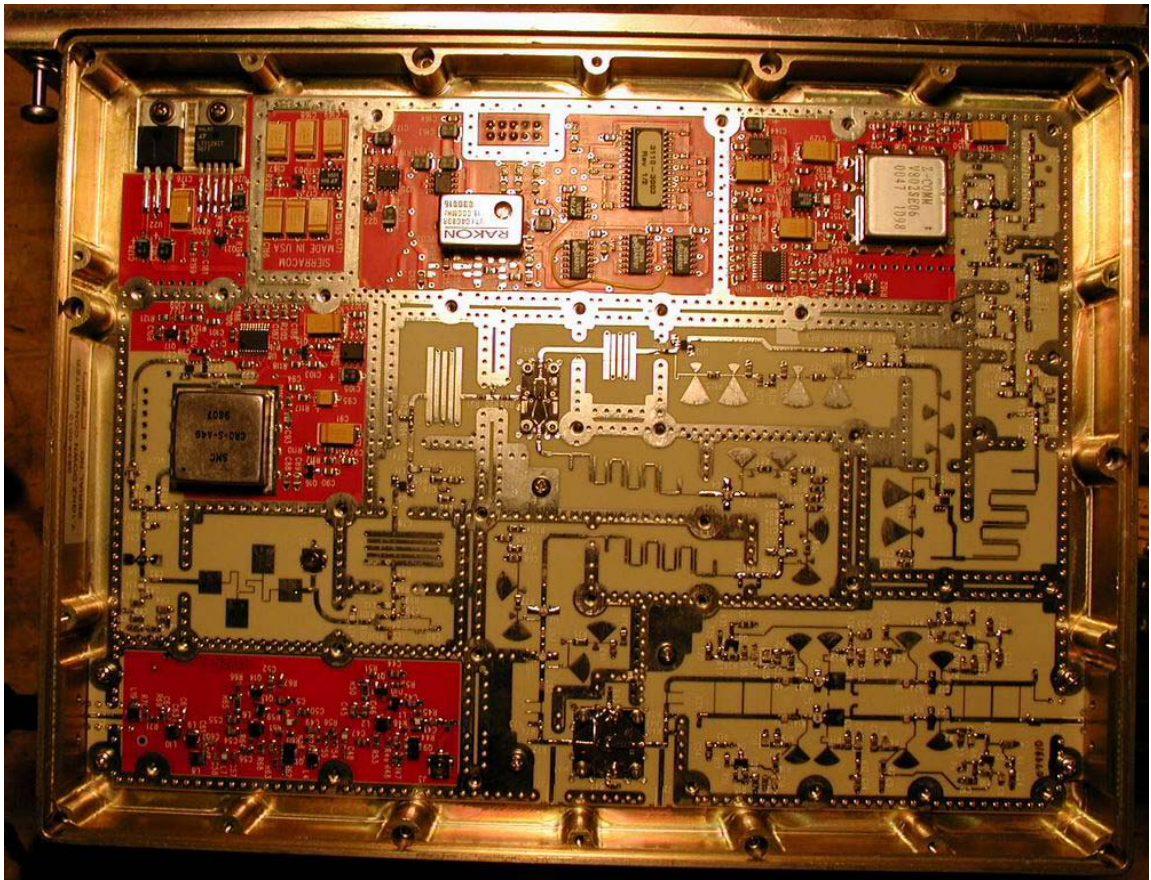
PMC X1MA24A

K&L 5DR33-1212/X50-1.5

RX module



TX module



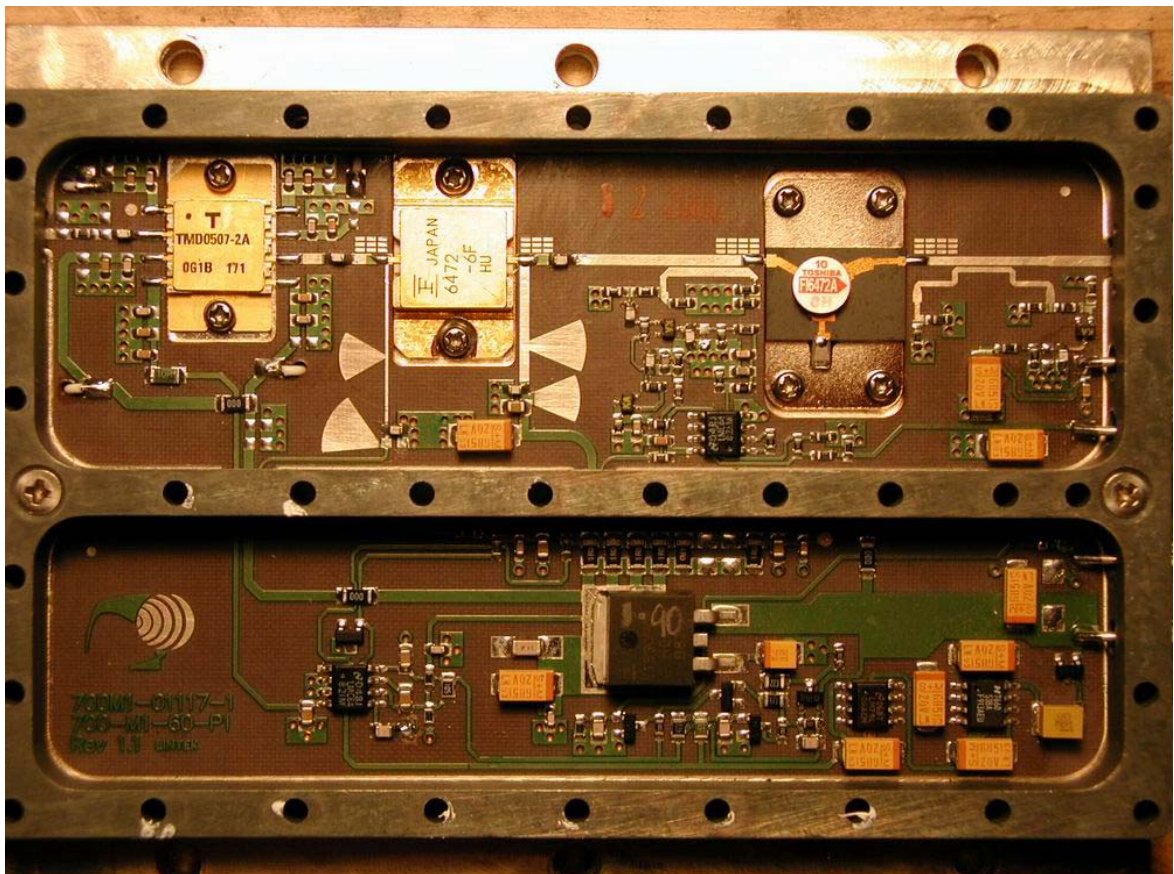


ITEM No	14	
Description	7.1 GHz Power Amplifier	
Frequency	7.1 GHz	
	2W at 5.760 GHz with about 30 dB gain. Needs a single 10.5 VDC supply, GaAs negative supply is internal	
	120 x 100 x 15	
	SMA ff	
Manufacturer	DMC	
Model Number		
URL		
Price	\$80	
	New – unused – original packing	

Contains 5 – 7 GHz 50ohm Gain Block TMD0507-2A

GasFet amplifier

F16472A (Toshiba) Circulator with inbuilt dummy load



<b>ITEM No</b>	<b>15</b>
<b>Description</b>	<b>NICAM Encoder</b>
Frequency	TV IF 38.9 MHz
	Professional NICAM encoder
	19" rack 1U high
	Internal PSU
Manufacturer	Barconet
Model Number	NE768
URL	<a href="http://www.saeurope.net/products_barconet/Product.asp?element=1115">http://www.saeurope.net/products_barconet/Product.asp?element=1115</a>
Price	\$300
	removed from working installation – tested OK
	Manual available – please ask

This encoder sits inbetween the 38.9 MHz video IF and the Upconverter. It locks on to the Vision carrier frequency and generates a digital NICAM carrier at exactly the right frequency. The NICAM subcarrier level is adjustable.

