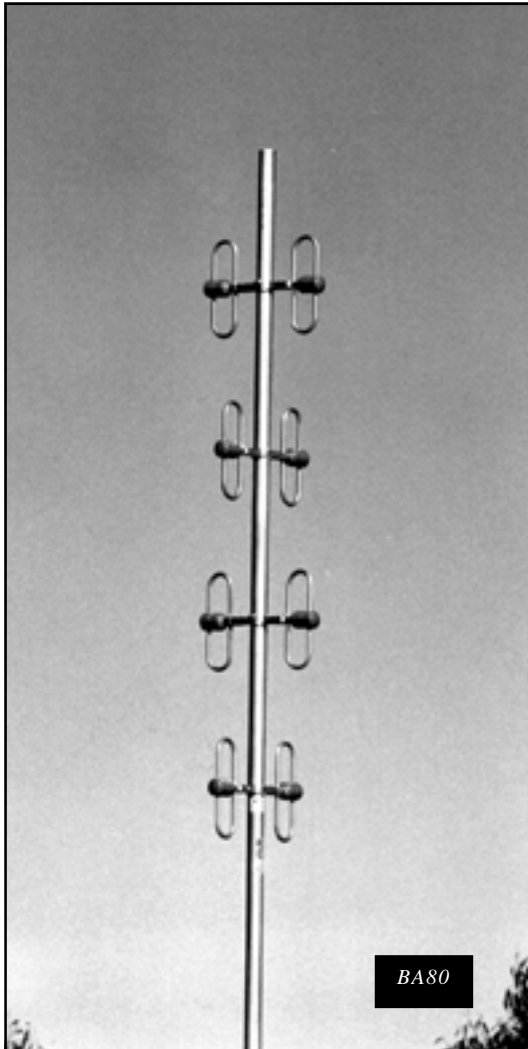


UHF Omnidirectional Binary Arrays

330-520 MHz

BA40 Series 330-520 MHz - 3.0 dBd Gain

BA80 Series 330-520 MHz - 6.0 dBd Gain



These 'New Generation' high performance UHF dipole arrays are ideal for highly populated radio sites requiring long haul omnidirectional coverage. They operate over entire bands and offer gains of 3.0 or 6.0 dBd (depending on model) and exhibit a VSWR of <math><1.5:1</math> across the band.

The arrays utilise an internal phasing harness in PTFE based double screened coaxial cable. The use of a unique phasing arrangement provides extensive side lobe suppression and null fill characteristics. The arrays will accept an input level of 500 watts continuous, making them ideal for high power multiple transmitter applications. The larger arrays are offered with 0°, 3° or 5° downtilt, to further enhance close-in coverage characteristics.

All welded alodined aluminium construction and new fabrication techniques in both the harness and dipole sections have proven to minimise intermodulation and noise generated within the antennas. The entire array rests at ground potential and offers the ultimate in lightning resistant antennas.

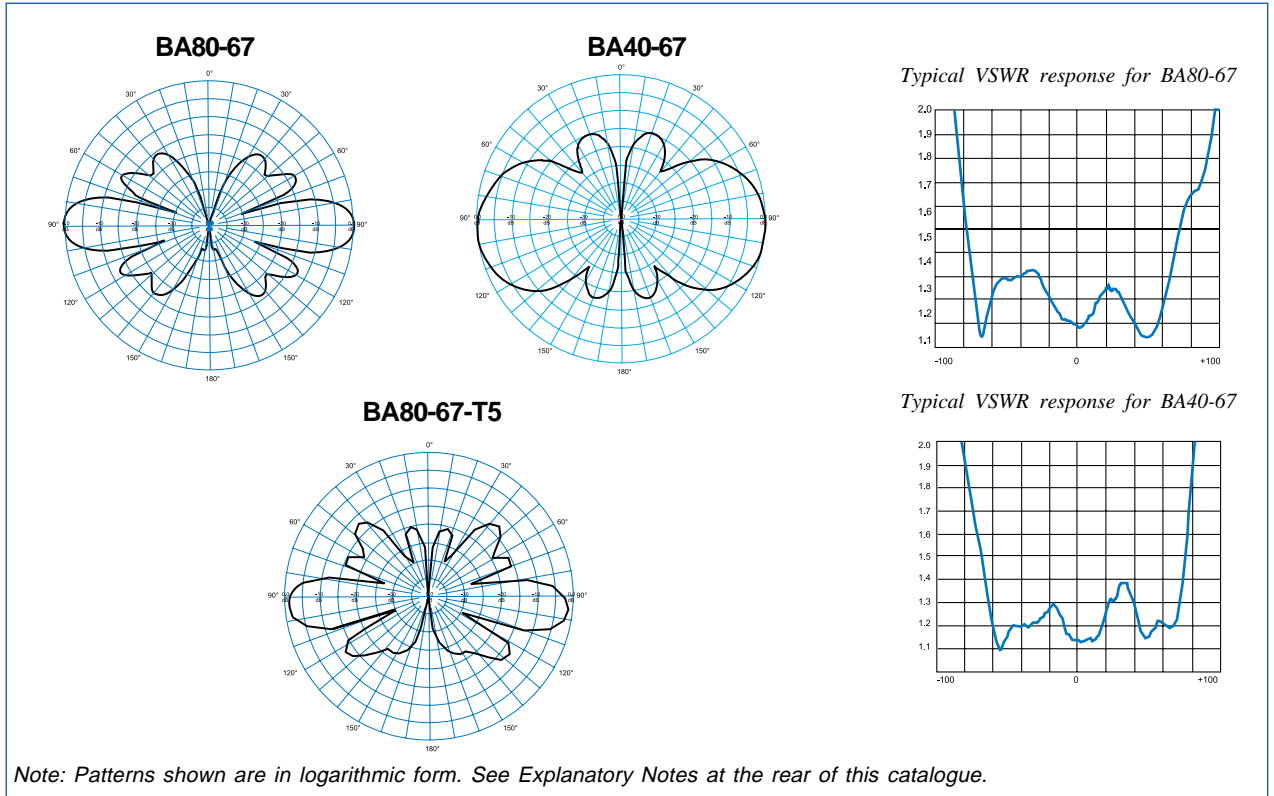
- Ideal for highly populated sites requiring long haul omnidirectional coverage
- Operate over entire 330-420 or 400-520 MHz bands
- 3.0 dBd or 6.0 dBd gain versions available
- Inverted mounting version available
- 0°, 3 or 5° of downtilt available
- Extensive side lobe suppression and null fill
- Third order intermodulation products guaranteed to be lower than 125dB below carrier input levels providing low IM and low noise characteristics for optimum performance

For application notes and phasing harness details for stacking BA40 and BA80 arrays contact your RFI sales office or check our web site, www.rfindustries.com.au.

UHF Omnidirectional Binary Arrays

330-520 MHz

BA40 Series
BA80 Series



Electrical

Model No.	Gain (dBd)	Frequency (MHz)	Beamtilt	Tuned Bandwidth	VSWR (at operating bandwidth)	Impedance (Ohms)	Vertical Beamwidth (°)	Horizontal Beamwidth	Input Power (Watts)
BA40-57	3.0	330-420	0°	Entire Band	<1.5:1	50 (nominal)	48	Omni +/-0.5dB	500
BA40-67 *	3.0	400-520	0°				32		
BA80-57	6.0	330-420	0°				16		
BA80-67 *	6.0	400-520	0°				16		
BA80-67-T3 *			-3°						
BA80-67-T5 *			-5°						

* Also available in all stainless steel construction. Contact your nearest sales office for details.

Mechanical

Model No.	Construction	Length (mm)	Weight (kg)	Termination	Rated Wind Speed (kph)	Projected Area (m ²)	Suggested Mounting	Shipping Details
BA40 Series	All welded aluminium with alodine finish and internal cable harnessing	2020	6	N-female with RG-142 cable tail	250	0.14	2 x UC1 Clamps (minimum)	2200 x 430 x 430mm wooden crate - approx. 15kg.
BA80 Series		3000	8		236	0.28		3100 x 430 x 430mm wooden crate - approx. 18kg