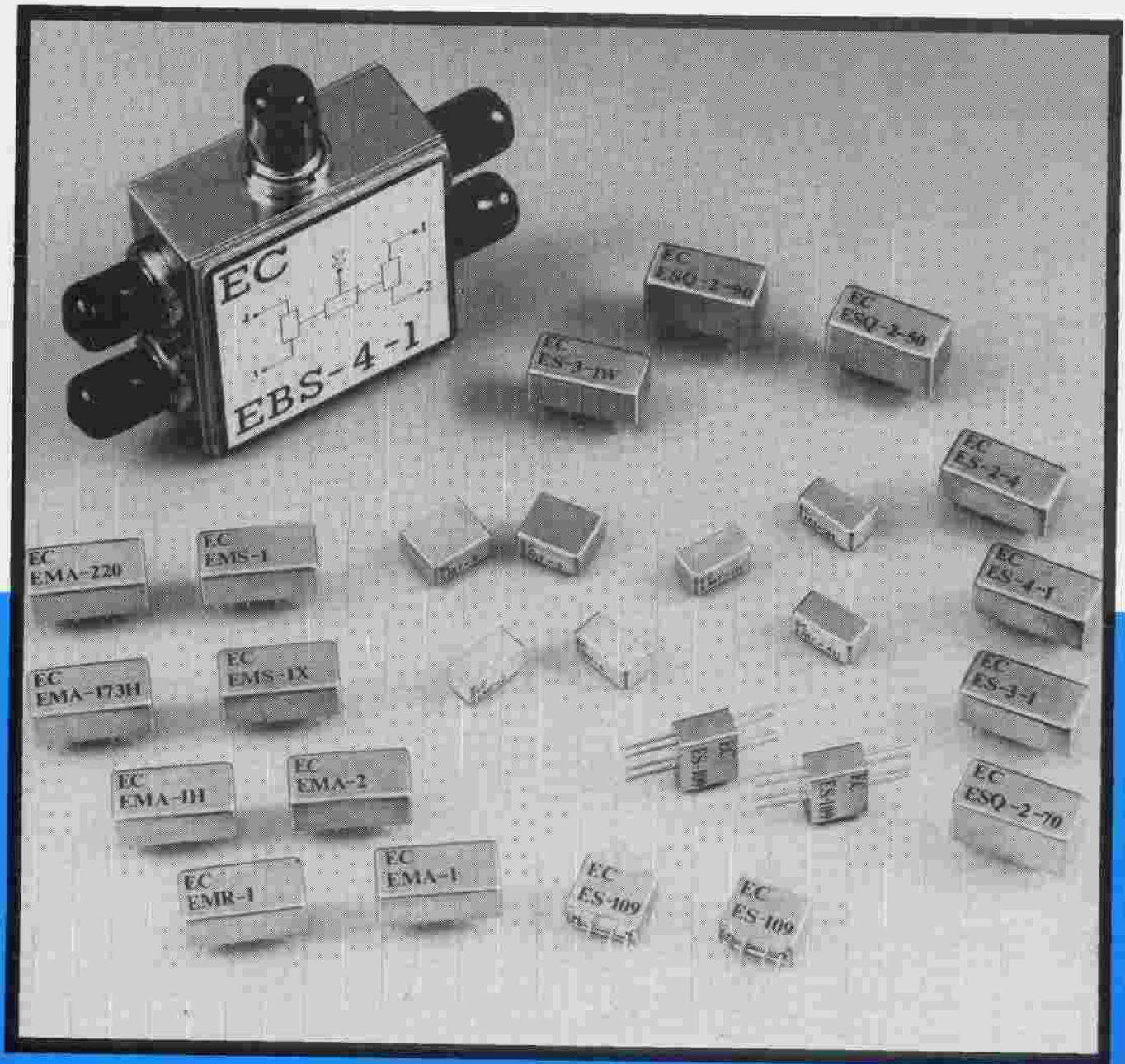


RF and IF Signal Processing Components



EUROTEC

COMPONENTS

THE EUROPEAN ADVANTAGE

EUROTEC COMPONENTS is a business unit of Adams-Russell B.V., the international affiliate of Adams-Russell Electronics USA.

EUROTEC is a European Company established to provide Microwave and RF Products to the European Community (EC). These products are designed, developed, and manufactured using International Electrotechnical Commission (IEC) Standards as the primary certification. EUROTEC COMPONENTS objective is to provide the user with the optimum balance of price/performance needed to meet his specific requirements.

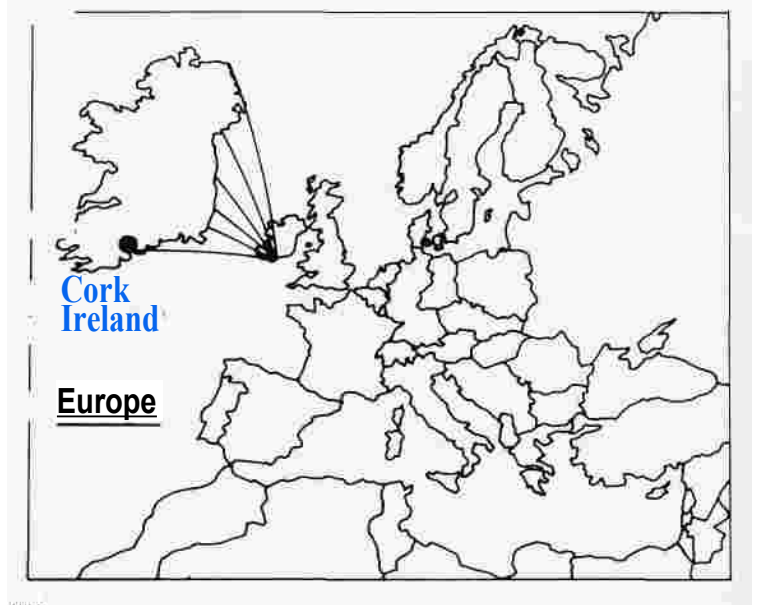
Operating from a 4150 square metre facility in Cork Ireland, EUROTEC COMPONENTS offers:

- **QUALITY**
With a goal of 0-PPM failures — quality is designed and built in.
- **SERVICE/DELIVERY**
Delivery normally 48 hours ex stock, within 72 hours to anywhere in Europe.
- **DESIGNS**
Proven HI-REL designs in best cost packaging.
- **COMPETITIVE PRICES**
Volume purchasing, automated manufacturing processes, and a location in Europe combine to give EUROTEC the competitive edge.

An additional benefit is that we can supply products with:

- NO IMPORT DUTY
- MINIMUM FREIGHT COST

CORK FACILITY



to

EUROTEC — THE EUROPEAN ADVANTAGE

INDEX

	Page
Front Cover	1
The European Advantage	2
Index	3
Parts per Million Programme	4
Three Year Warranty	5
Mixer Data	
Level + 7dBm	6/7
EMS-1	
EMS-1X	
EMA-1	
EMA-2	
EMT-2	
EMT-3	
EMT-4	
Mixer Data	8/9
Level+10dBm	
EMA-220	
Level+17dBm	
EMA-1H	
EMT-1H	
EMT-2H	
EMT-3H	
EMT-4H	
EMA-173H	
LEVEL + 23dBm	
EMR-1	
Pouuer Splitter/Combiner Data	10/11
2-Way-0°	
ES-2-4	
ES-109	
2-Way-90°	
ESQ-2-50	
ESQ-2-70	
ESQ-2-90	
Power Splitter/Combiner Data	12/13
3-Way-0°	
ES-3-1	
ES-3-1W	
4-Way-0°	
ES-4-1	
Ordering/Shipping/Pricing Information	14
Adams Russell (BV)	15
Sales Offices	16

EUROTEC PARTS PER MILLION PROGRAM

The ratio of component cost to the cost of locating a System defect in the field is enormous — for this reason Eurotec uses the PPM concept for product screening.

Typical cost of a defect when located and replaced can be:

A	—	£	.03 at our factory (automated screening)
B	—	£	.30 at your incoming inspection
C	—	£	3.00 in your sub-system
D	—	£	30.00 in your System
E	—	£	300.00 in the field

Although AQL has been an accepted industry Standard, an AQL of 0.1 % is equal to 1000 PPM. A rate Eurotec believes is unacceptable. We guarantee 100 PPM with a goal of 0-PPM.

Achieving 0-PPM requires extremely close liaison between manufacturers and user, to permit detailed verification and analysis of any products believed to be defective. This two way communication will allow a prompt and efficient response to any user questions or problems.

REMEMBER	0.1%AQL	—	1000 PPM
WE GUARANTEE			100 PPM

ENVIRONMENTAL PERFORMANCE

All Eurotec products are designed, developed, and manufactured to perform when exposed to the requirements of the International Electrotechnical Commission (IEC).

Typical parameters and IEC methods are listed below:

EXPOSURE	IEC METHOD
Temperature cycling -65°C to + 125°C	IEC68-2-14
Low Air Pressure (656,000 feet) 9.4 x 10-8in Mercury	IEC68-2-13
Humidity: 93% RH, 40°C, 4-56 days	IEC68-2-3
Thermal shock -65°C to + 125°C	IEC68-2-14
Seal: less than 10 ⁻⁵ Atm cc/s	IEC68-2-17 Qc
Free Fall Drop: random, 45 min.	IEC68-2-32 Ed
Vibration: 2 to 2000 cps, 20g, 12 hrs.	IEC68-2-6 Fc
Solder heat: 260°C, 10s.	IEC68-2-20 Tb
Solderability: 95% coverage	IEC68-2-20 Ta
Terminal tensile strength: 2kgs, 10s	IEC68-2-21 Ub
Terminal fatigue: 1kg, 3 cycles	IEC68-2-21 Ub
Mechanical shock: 100g, 6ms.	IEC68-2-27 Ea
Solvent resistance: alcohol, trichlorethane, freon	IEC68-2-45

THREE YEAR WARRANTY

During every step in the production of Eurotec products, from initial concept through design, material selection, manufacturing, inspection, and test procedures, utmost importance is placed on performance and reliability. All products carry this warranty:

Seller warrants that the supplies to be delivered hereunder shall, at the time of delivery, be free from defects in workmanship and material and shall conform to the specifications made a part of the contract or purchase order. This warranty shall remain in effect for a period of three years from the date of delivery of the supplies; provided however, that notice of any such defect must be produced to the Seiler within thirty days of its discovery by Buyer.

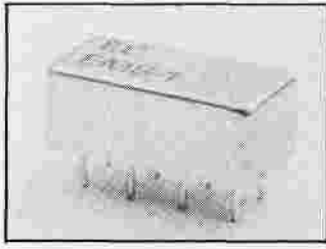
Seller's liability under this warranty is limited to the furnishing of replacement parts on an exchange basis, or at Seller's Option, to the repair or replacement of defective articles at Seller's plant, in which event all costs of packing and shipment to and from Seller's plant will be borne by Buyer. Seiler shall have no liability for defects which arise, directly, or indirectly, as a result of accident, improper use, or unauthorised repairs.

THE WARRANTIES STATED HEREIN ARE EXCLUSIVE AND IN LEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

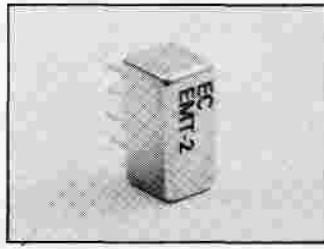
THREE YEAR WARRANTY

FREQUENCY MIXERS

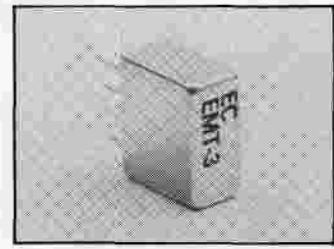
Level 7 (+7dBm LO, up to +1dBm RF)



**8 Pin Relay Header
(R1)**



**4 Pin Relay Header
(R3)**



**4 Pin Relay Header
(R4)**

Model No.	Frequency MHz LO/RF IF F1-FU	Conversion Loss dB				LO-RF Isolation dB						LO-IF Isolation dB						Price Gase Pin-Out Each	Qty.	£ Stg.		
		Mid Band m		Total Range		L		M		U		L		M		U						
		Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.					
EMS-1	1-500	DC-500	5.5	7.0	6.5	8.0	60	45	45	35	40	25	45	35	40	25	30	20	R1	1	3.00	[5-24]
EMS-1 X	10-1000	5-500	6.0	7.5	7.0	8.0	50	40	40	30	30	20	50	45	40	35	35	25	R1	2	4.00	(5-24)
EMA-1	.5-500	DC-500	5.5	7.0	6.5	8.5	50	45	45	30	35	25	45	35	40	25	30	20	R1	3	8.10	(5-24)
EMA-2	1-1000	.5-500	5.5	7.5	6.5	8.5	45	30	35	20	30	20	45	30	30	20	30	20	R1	2	10.10	(5-24)
EMT-2	1-1000	DC-1000	6.0	7.5	7.0	8.5	50	45	40	25	30	25	45	40	35	25	25	20	R3	4	8.10	(5-24)
EMT-3	0.04-400	DC-400	5.3	7. G	6.0	8.0	60	50	50	35	35	25	55	40	45	30	35	25	R4	4	13.50	(5-24)
EMT-4	5-1250	DC-1250	6.0	7.5	7.5	8.5	50	45	40	30	30	25	45	40	35	25	25	20	R3	4	14.90	(5-24)

L = Low range (Fi. to 1 OFu) M = mid range (1 QFi to Fu/2) m = mid band (2F_L to Fu/2) U = Upper range (fu/2 to fu)

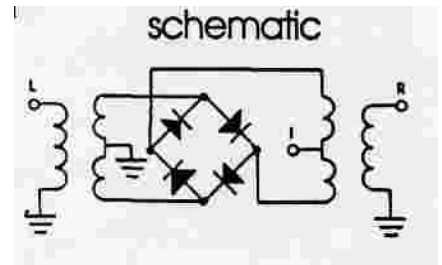
Mixers — Cross Reference List

EUROTEC Model No.	MINI CCTS Part No.	WATKINS JOHNSON		VARIL		SYNERGY	
		Equivalent	Nearest	Equivalent	Nearest	Equivalent	Nearest
EMS-1	SBL-1		MBE-50	CM-1		S-1	
EMS-1X	SBL-1X		-X-M6R (TO)		CM2	S-4A	
EMA-1	SRA-1		M6E-50		CM1	S-3	
EMA-2	SRA-2		-X-M6R (TO)		CM2	S-4	
EMT-2	TFM-2		-X-M6R (TO)		-X-CM2	S-6	
EMT-3	TFM-3		M6K		-X-DBM141		CLP-301
EMT-4	TFM-4		-X-M9K		-X-DBM177		CLP-311
-X-Different Package.							

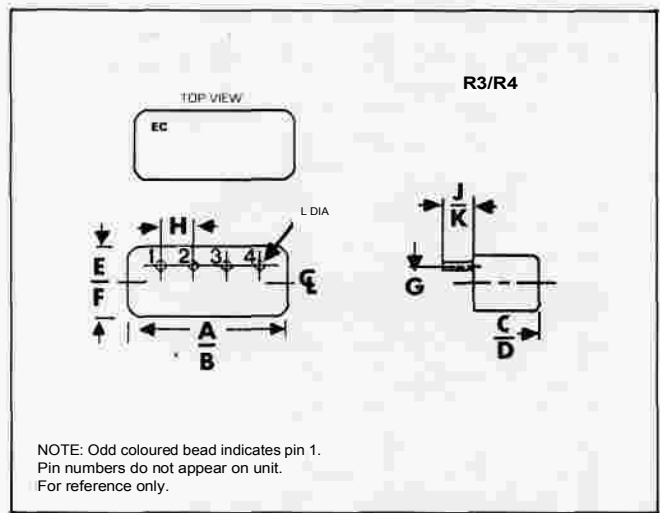
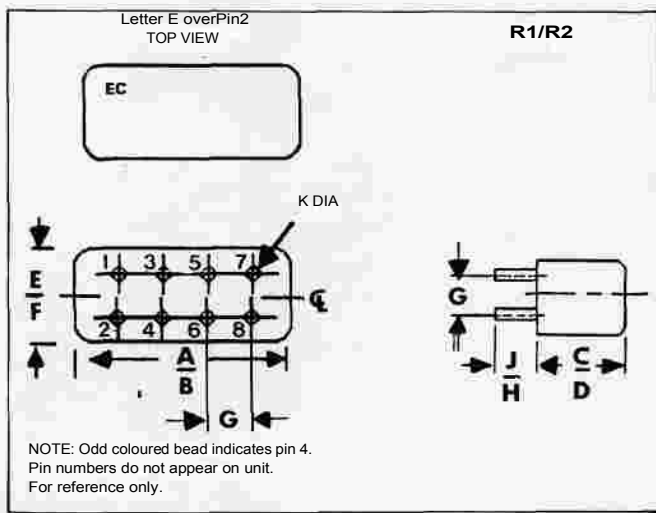
NOTES

- For quality and environmental specifications see pages 4 and 5.
- Absolute maximum ratings:
 Rf Power: 50mW.
 Peak If Current: 40mA
 Operating and storage temperature: -55°C to +100°C.
 Pin temperature (10s) 260 C.
- Price and specifications subject to change without notice.

• Delivery is from stock.



CASE OUTLINE DRAWINGS



Package Style Outline Dimensions (inch/mm)

Case	A	B	C	D	E	F	G	H	J	K	L
R1	.770 19.56	.800 20.32	.285 7.24	.310 7.88	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79	
R2	.770 19.56	.800 20.32	.385 9.78	.400 10.16	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79	
R3	.48 12.20	.50 12.70	.24 6.10	.255 6.48	.21 5.34	.230 5.85	.16 4.07	.100 2.54	.14 3.56	.20 5.08	.020 .51
R4	.48 12.20	.50 12.70	.390 9.91	.405 10.29	.21 5.34	.23 5.85	.16 4.07	.10 2.54	.14 3.56	.20 5.08	.02 .51

NOTES

Material and finish (R1 /R2/R3).

Header material: C.R.S.;

Pin material: No. 52 alloy;

Finish: bright electro-tin type I, .0003 in. thick min.;

Cover material: cupro-nickel.

PIN OUT TABLE — Frequency Mixers

Pin-Out	LO	RF	IF	Ground	Case Ground
1	8	1	3,4*	2,5,6,7	—
2	8	3,4	1	2,5,6,7	2,5,6,7
3	8	1	3,4*	2,5,6,7	2
4	4	1	2	3	3
5	3,4	1	8	2,5,6,7	2,5,6,7
6	8	1	3,4	2,5,6,7	2,5,6,7
7	8	1	3	2,5,6,7	2,5,6,7

See Pin Numbers above.

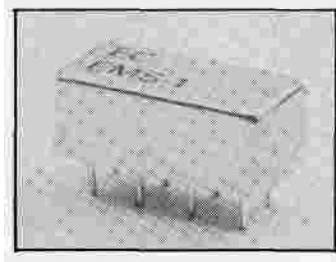
* Pins must be connected together externally,

FREQUENCY MIXERS

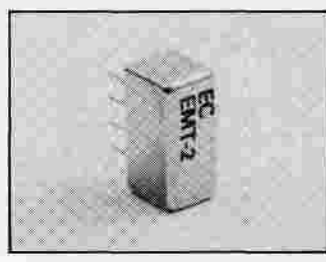
Level 10 (+10 dBm LO, up to + 5dBm RF)

Level 17(+ 17 dBm LO, up to + 10dBm RF)

Level 23 (+ 23 dBm LO up to +15dBm RF)



8 Pin Relay Header
(R1)



4 Pin Relay Header
(R3)

Model No.	Frequency MHz LO/RF IF F1-Fu	Conversion Loss dB				LO-RF Isolation dB				LO-IF Isolation dB				Gase	Price Pin-Out Each	Qty.	a					
		Mid Band		Total		L	M	U	L	M	U	L	M					U				
		in	Range	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.					
Level 10 < 10dBm LO, up to 5dBm RF)																						
EMA-220	5.0-2000 .05-500	6.0	B.O	7.0	9.0	25		20	40	30	30	SO	25	20	40	30	25	15	R1	7	18.20	(5-24)
Level 17 (+17dBm LO, up to +10dBm RF)																						
EMA-1 H	.5-500 DC-500	5.5	7.5	6.5	8.5	55		45	45	30	35	25	45	35	40	30	30	20	R1	3	12.20	(5-24)
EMT-1H	2-500 DC-500	B.O	7.5	7.0	8.5	50		45	40	30	30	20	45	40	35	25	25	20	R3	4	16.20	B-24)
EMT-2H	5-1000 DC-1000	6.2	7.0	7.0	10	50		45	40	30	30	20	45	40	35	25	25	17	R3	4	21.70	(5-24)
EMT-3H	0.1-250 DC-250	5.0	7.0	6.0	B.5	50		45	40	30	28	33	45	40	35	25	26	20	R3	4	16.20	(5-24)
EMT-4H	5-1200 DC-1200	6.5	8.0	7.0	9.0	50		40	35	25	30	20	50	40	35	20	30	20	R3	4	23.00	(5-24)
EMA-173H	5-1200 DC-1200	6.0	7.0	7.0	8.5	40		35	35	25	35	SO	40	35	35	20	30	20	R1	5.6	20.30	(5-24)
Level 23 < 23dBm LO, up to 15dBm RF)																						
EMR-1	5-500 DC-500	6.0	7.5	7.5	8.5	55		45	40	30	30	25	55	45	40	30	30	20	R1	3	23.70	(5-24)

L = Low range (FL to 10FÜ M = mid range HÖR. to Fu/2) m = mid band (2FL to Fu/2) U = Upper range (fu/2 to fu)

Mixers — Cross Reference List

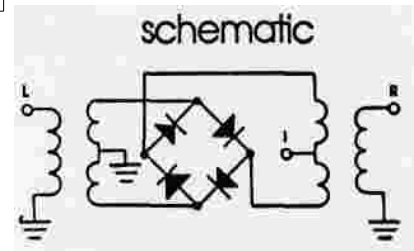
EUROTEC	MINI CCTS	WATKINS JOHNSON		VARIL		SYNERGY	
Model No.	Part No.	Equivalent	Nearest	Equivalent	Nearest	Eauivalent	Nearest
EMA-1H	SRA-1H	I-M9BC		CM-1H8		CMP-A27	
EMT-1H	TFM-1H	I-M9BC		*CM2-1 H8		CMP-301	
EMT-2H	TFM-2H	J-M9G		*CM-2HB		CMP-303	
EMT-3H	TFM-3H	I-M9BC		*CM-1 HB		CMP-312	
EMT-4H	TFM-4H	I-M9G		*DBM-176		CMP-31 1	
EMR-1	RAY-1	M9D		DBM-188		CHP-201	
EMA-173H	EMA-173H	;-M9G		*DBM-1 76		CMP-A12	
EMA-220	SRA-220	*M2E				CLP-205	

*Different Package.

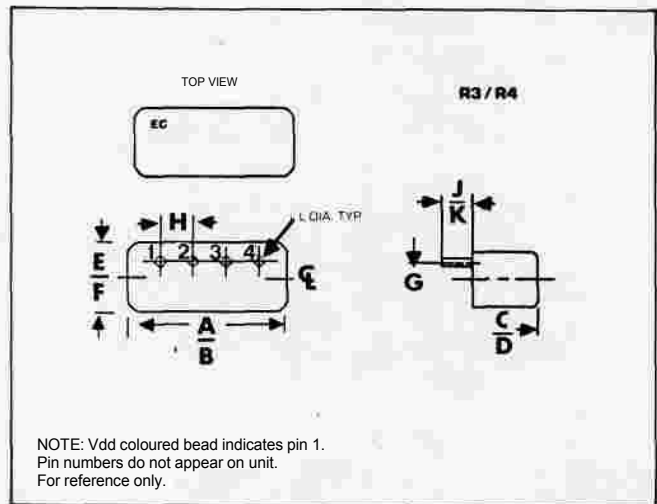
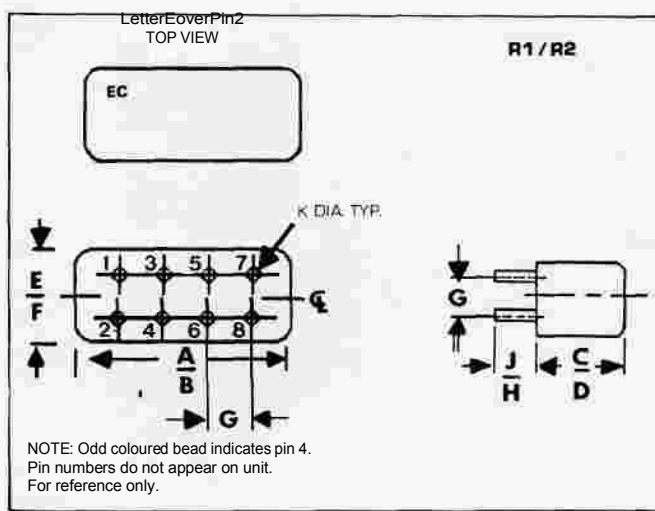
NOTES

- For quality and environmental specifications See pages 4 and 5.
- Absolute maximum ratings:
 Rf Power: SO m W level 10, 300mW level 17, 350mw level 23.
 Peak If Current: 40mA
 Operating and storage temperature: -55°C to 1100 C.
 Pin temperature (IOs) +260 C
- Price and specifications subject to change without notice.

• All units ex-stock delivery.



CASE OUTLINE DRAWINGS



Package Style Outline Dimensions (inch/mm)

Case	A	B	C	D	E	F	G	H	J	K	L
R1	.770 19.56	.800 20.32	.285 7.24	.310 7.88	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79	
R2	.770 19.56	.800 20.32	.385 9.78	.400 10.16	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79	
R3	.48 12.20	.50 12.70	.24 6.10	.255 6.48	.21 5.34	.230 5.85	.16 4.07	.100 2.54	.14 3.56	.20 5.08	.020 .51

NOTES

Material and finish (R1, R2, F1).

Header material: C.R.S.;

Pin material: I.Vo. 52 alloy;

Finish: bright electro-tin type I, .0003 in. thick min.;

Cover material: cupro-nickel.

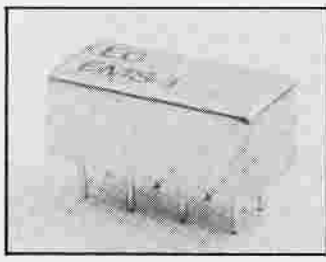
PIN OUT TABLE — Frequency Mixers

Pin-Out	LO	RF	IF	Ground	Case Ground
1	8	1	3,4*	2,5,6,7	—
2	8	3,4	1	2,5,6,7	2,5,6,7
3	8	1	3,4*	2,5,6,7	2
4	4	1	2	3	3
5	3,4*	1	8	2,5,6,7	2,5,6,7
B	8	1	3,4*	2,5,6,7	2,5,6,7
7	8	1	3	2,5,6,7	2,5,6,7

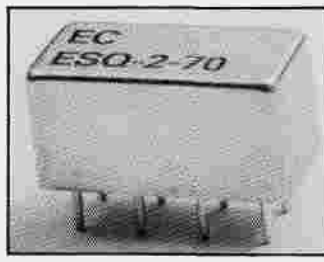
See Pin Numbers above.

* Pins must be connected together externally.

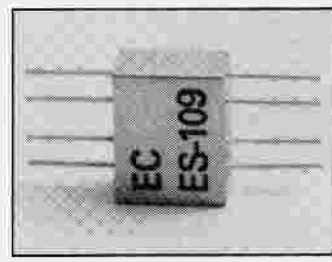
POWER SPLITTER/COMBINERS



8 Pin Relay Header
(R1)



8 Pin Relay Header
(R2)



8 Pin Flatpack
(F1)

POWER SPLITTER/COMBINER 2-Way-0

Model No.	Freq. Range MHz f ₁ -f ₂	Isolation dB						Phase Insertion Loss Above 3dB						Amplitude Unbalance Degrees						Unbalance dB						Price £Stg.			
		L typ.	M min.	U typ.	L min.	M typ.	U min.	L typ.	M max.	U typ.	L max.	M max.	U max.	L max.	M max.	U max.	L max.	M max.	U max.	Case	Pin-out	Each	Qty.						
ES-2-4	10-1000	30	25	25	20	25	20	0.6	1.0	O.B	1.2	0.7	1.2	2.0	8.0	20	0.15	0.2	0.4	R1	1	13.50	(5-24)						
ES-109	10-500	35	25	30	25	30	25	0.3	0.5	0.4	O.B	0.5	O.B	2.0	3.0	2.0	0.15	0.2	0.3	F1	B	21.60	'5-24)						

POWER SPLITTER/COMBINER 2-way-90

Model No.	Freq. Range MHz	Isolation dB typ.	mm.	Insertion Loss Avg. of Coupled Outputs less 3 dB typ.	max.	Phase Unbalance Degrees max.	Amplitude Unbalance dB max.	Case	Pin-Out Each	Price Each	Qty.
ESQ-2-50	25-50	30	20	0.3	0.7	3.0	1.5	R2	2	13.50	(5-24)
ESQ-2-70	40-70	30	20	0.3	0.7	3.0	1.5	R2	2	13.50	(5-24)
ESQ-2-90	55-90	30	20	0.3	0.7	3.0	1.2	R2	2	13.50	(5-24)

L = Low range (f₁ to 10f₁) M = Mid range (10f₁ to f₂/2) U = Upper range (f₂/2 to f₂)

CROSS REFERENCE LIST

EUROTEC	Freq. Range	Splitter Type	Mini-Circuits	VARIL	SYNERGY
Model No.	M Hz		Part No.	Equiv. Nearest	Equiv. Nearest
ES-2-4	10-1000	2-way-0	PSC-2-4	*PS2-1000F	DSP-212
ES-109	10-500	2-way-0	LPS-109	PS-2-500F	
ESQ-2-50	25-50	2-way-90	PSCQ-2-50		DQP-201
ESQ-2-70	40-70	2-way-90	PSCQ-2-70		DQP-202
ESQ-2-90	55-90	2-way-90	PSCQ-2-90		DQP-220

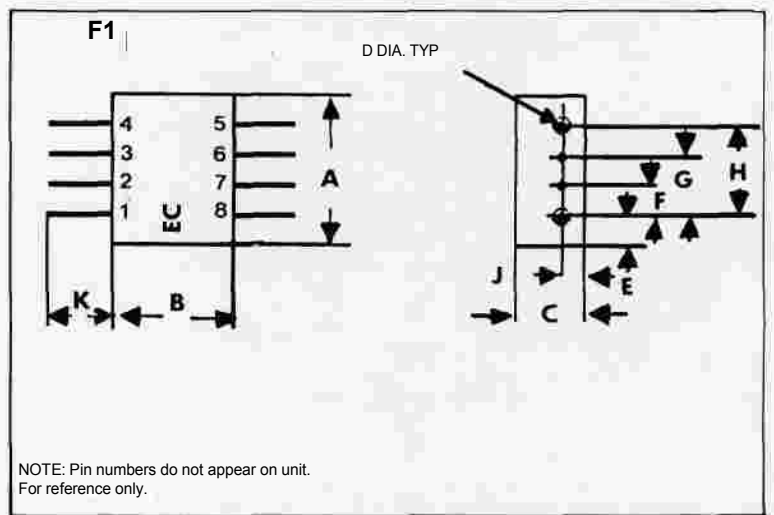
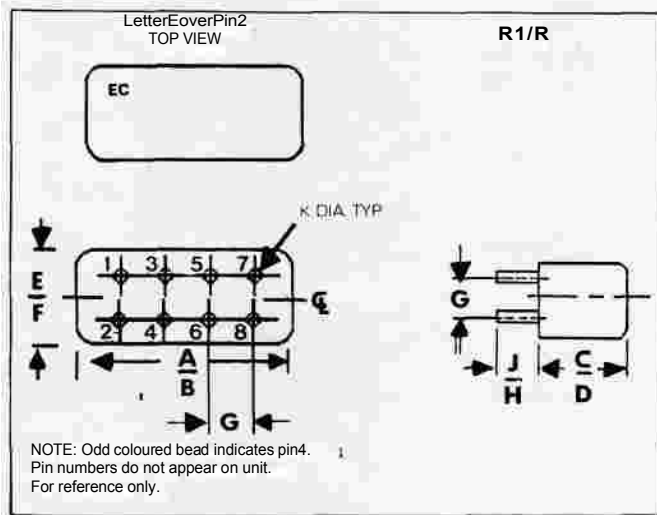
NOTES:

- For quality and environmental specifications see pages 4 and 5.
- Absolute maximum ratings:
 - Matched power rating: 1W.
 - Internal load dissipation: 0.125W.
 - Operating and storage temperature: -55°C to +100°C.
 - Pin temperature (10s): +260°C.
- Prices and specifications subject to change without notice.

• Delivery is from stock.

EUROTEC – THE EUROPEAN ADVANTAGE

CASE OUTLINE DRAWINGS



Package Style Outline Dimensions (inch/mm)

Case	A	B	C	D	E	F	G	H	J	K
R1	.770 19.56	.800 20.32	.285 7.24	.310 7.88	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79
R2	.770 19.56	.800 20.32	.385 9.78	.400 10.16	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79
F1	.50 12.70	.38 9.65	.150 3.81	.020 .51	.06 1.52	.100 2.54	.250 6.35	.350 8.89	.06 1.53	.31 7.87

NOTES

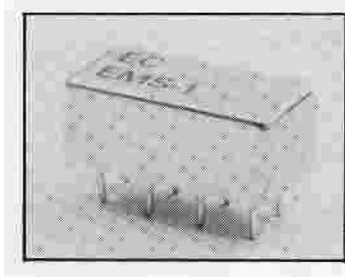
Material and finish (R1, R2, FD).
Header material: C.R.S.;
Pin material: No. 52 alloy;
Finish: bright electro-tin type I, .0003 in. thick min.;
Cover material: cupro-nickel.

PIN OUT TABLE — Power Splitter

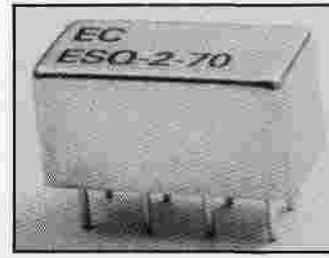
Pin-Out	Sum Port	Port 1	Port 2	Ground	Terminate 50 Ohms
1	1	5	B	2,3,4,7,8	—
2	1	2	5	3,4,7,8	6
6	1	4	5	2,3,6,7,8	—

See Pin Numbers above.

POWER SPLITTER/COMBINERS



8 Pin Relay Header
(R1)



8 Pin Relay Header
(R2)

POWER SPLITTER/COMBINER 3-Way-0

Model No.	Range MHz	Isolation				Insertion Loss				Above 3dB				Unbalance		Amplitude Unbalance			Case	Pin-out	Price		
		L typ.	L min.	M typ.	M min.	U typ.	U min.	L typ.	L max.	M typ.	M max.	U typ.	U max.	Degrees	M max.	U max.	L max.	M max.				U max.	
ES-3-1	1-900	45	30	40	30	40	25	0.6	1.0	0.4	0.7	0.6	1.0	1.0	2.Q	4.0	0.15	0.2	0.3	R1	3	13.50	(5-24)
ES-3-1 W	5-500	25	20	31	15	25	15	0.4	0.8	0.4	1.4	0.8	1.4	6.0	14	20	0.1	0.3	0.8	R1	4	28.50	(5-24)

POWER SPLITTER/COMBINER 4-Way-0

Model No.	Range MHz	Isolation				Phase Insertion Loss				Above 3dB				Unbalance		Amplitude Unbalance			Case	Pin-out	Price	
		L typ.	L min.	M typ.	M min.	U typ.	U min.	L typ.	L max.	M typ.	M max.	U typ.	U max.	Degrees	M max.	U max.	L max.	M max.				U max.
ES-4-1	0.1-200	33	20	30	20	27	20	0.4	0.6	0.5	0.75	0.7	1.0	4.0	6.0	.15	.20	.25	R2	5	19.60	(5-24)

L = Low range (f_L to $10f_L$) M = Mid range ($10f_L$ to $f_U/2$) U = Upper range ($f_U/2$ to f_U)

CROSS REFERENCE LIST

EUROTEC	Freq. Range	Splitter Type	Mini-Circuits	VARIL	SYNERGY
Model No.	MHz		Part No.	Equiv. Nearest	Equiv. Nearest
ES-3-1	1-200	3-way-0	PSC-3-1	*PS-3-500F	
ES-3-1W	5-500	3-way-0	PSC-3-1W	*PS-3-500F	
ES-4-1	5-500	4-way-0	PSC-4-1	*PS-4-500F	DSP-204

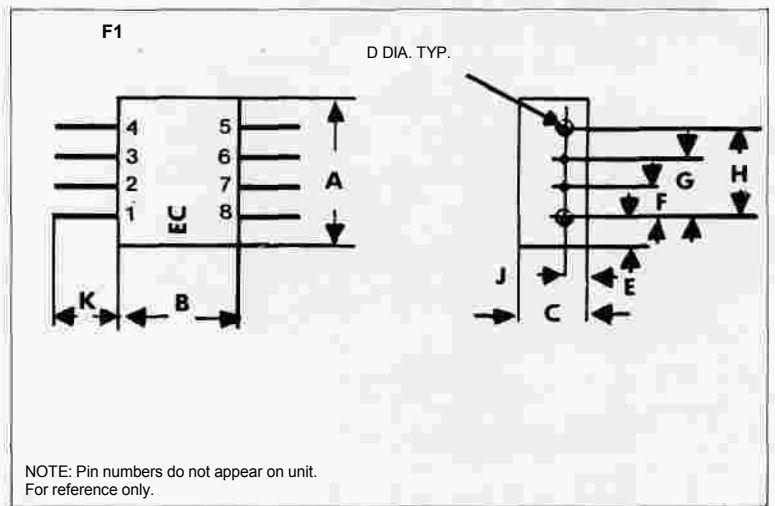
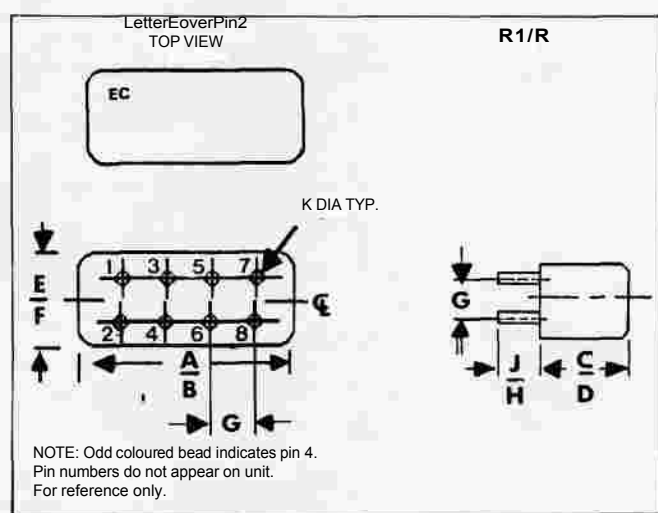
*Different Package.

NOTES:

- For quality and environmental specifications see pages 4 and 5.
- Absolute maximum ratings:
 - Matched power rating: 1W.
 - Internal load dissipation: 0.125W.
 - Operating and storage temperature: -55°C to +100°C.
 - Pin temperature (10s): 260 C.
- Prices and specifications subject to change without notice.

• Delivery is from stock.

CASE OUTLINE DRAWINGS



Package Style Outline Dimensions (inch/mm)

Case	A	B	C	D	E	F	G	H	J	K
R1	.770 19.56	.800 20.32	.285 7.24	.310 7.88	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79
R2	.770 19.56	.800 20.32	.385 9.78	.400 10.16	.370 9.40	.400 10.16	.200 5.08	.200 5.08	.14 3.56	.031 .79
F1	.50 12.70	.38 9.65	.150 3.81	.020 .51	.06 1.52	.100 2.54	.250 6.35	.350 8.89	.06 1.53	.31 7.87

NOTES

Material and finish (R1, R2, F1).
Header material: C.R.S.;
Pin material: No. 52 alloy;
Finish: bright electro-tin type I, .0003 in. thick min.;
Cover material: cupro-nickel.

PIN OUT TABLE — Power Splitter

Pin-Out	Sum Port	Port 1	Port 2	Port 3	Port 4	Ground
3	B	1	2	5	—	3,4,7,8
4	1	5	7	8	—	2,3,4,6
5	4	7	8	1	2	3,5,6,

See Pin Numbers above.

HOW TO ORDER

Your local representative is the contact for both Sales and Service Assistance for products listed in this catalogue. These local Offices will provide the latest price and delivery information on all models. They have details on Ordering Procedures, Service Information and Application Engineering Data.

Orders may be placed with either EUROTEC local sales representatives, listed on the back page of this catalogue, or directly with EUROTEC COMPONENTS at

**EUROTEC COMPONENTS,
Kilbarry Industrial Estate,
Dublin Hill,
Cork,
Ireland.**

Tel:+353-21-395700

Tlx:75115EI

Fax:+353-21-395507

PRICING

Prices listed in this catalogue are F.O.B. Cork, Ireland. EUROTEC COMPONENTS reserves the right to change specifications, models, prices or designs without prior notice and without liability for such changes. Our terms are net 30 days if credit has been established. Otherwise, shipments will be made C.O.D. or prepaid. If prepaying please include delivery charges.

SHIPPING INSTRUCTIONS

Unless instructed by the customer EUROTEC COMPONENTS will ship via U.P.S. for West Germany and TNT IPEC for the rest of Europe.

Also available are:

AIR PARCEL POST AIR FREIGHT, AIR EXPRESS and special Service methods.

Please indicate at time of purchase which method you require.

Adams-Russell B.V. is the international affiliate of Adams-Russell Electronics Co., Inc.

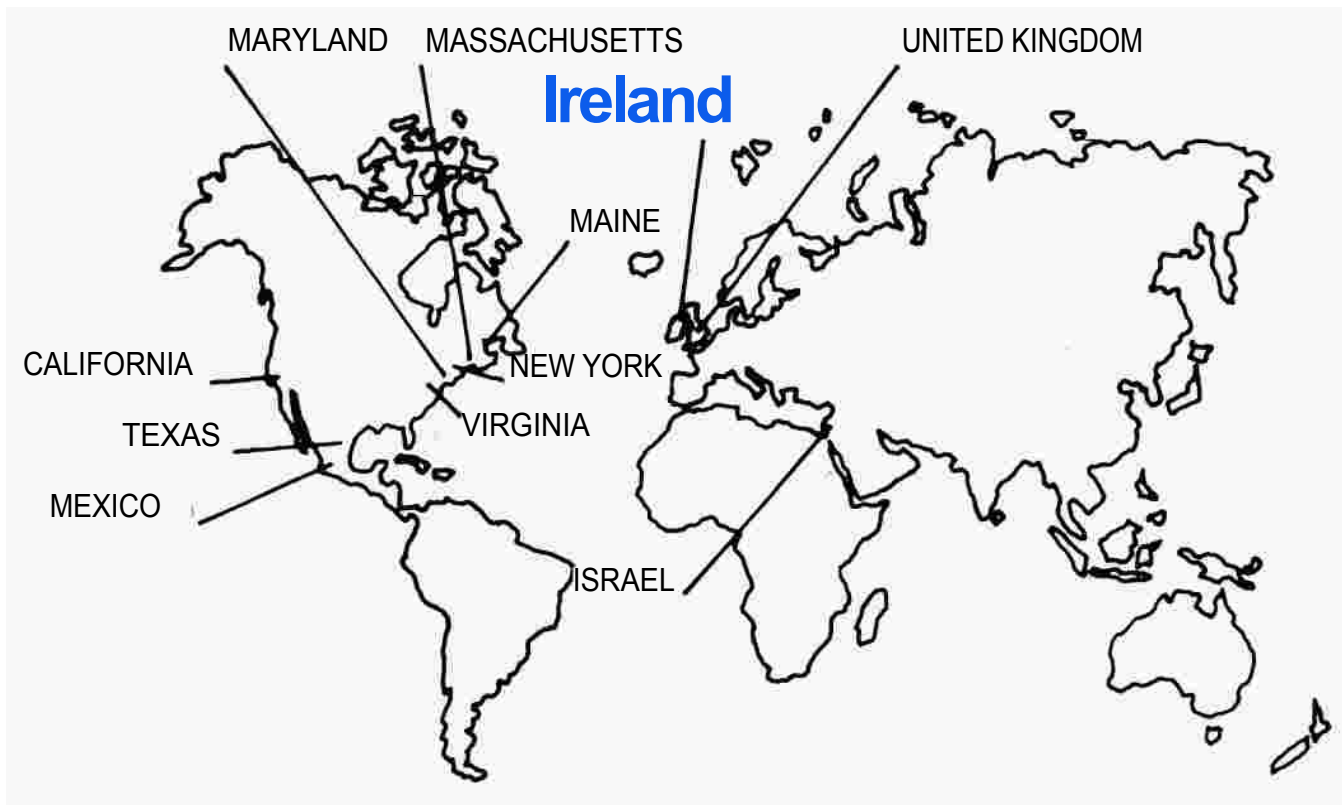
Adams-Russell Electronics Co., Inc. is a leading supplier of Microwave and RF Products with more than 28 years of hands-on experience in the design, development, and volume production of quality, performance products.

During this period of continued growth, our product lines have expanded to include Control devices, Diode manufacturing, Test, measurement, Surveillance Instruments, RF & Microwave receivers, High speed digital signal processing Systems, Components, and Software. In addition, High performance coaxial cable assemblies, Missile seeker antennas and electronics, Broad band antennas for ECM and CNI, Complex avionics chassis, Cold plates, and other heat transfer products utilizing both dip and vacuum brazing, RF shielded enclosures, Log amplifiers, Linear amplifiers and Subsystems, Space qualified RF & Microwave components and a Gallium Arsenide foundry.

Adams-Russell products are sold domestically and internationally and are utilized in many of the free world's latest aircraft, ships, satellites, missiles, and land based Systems.

During nearly three decades of Service to the RF, Microwave and Digital Signal Processing marketplace, ARE has established a reputation as a leader in innovative design, problem solving and quality production.

Adams-Russell facilities and product lines are located in the U.S., Ireland, Mexico, England, and Israel.





Allee 18, Postfach 3403, D-7100 Heilbronn,
Tel. 071 31/6 80 52, Telex 728246 transd, Fax 071 31/68059
Burgweg 4, Postfach 2509, D-8034 Germering/München,
Tel. 089/84 3017, Telex 52136 00 ttmu d, Fax 089/8 41 7568
Bramfelder Strasse 102 B, D-2000 Hamburg 60,
Tel. 040/6 90 43 42, Telex 217 3973 tthh d, Fax 040/6 90 29 33
Deutscherrenstrasse 46, D-5300 Bonn 2,
Tel. 02 28/33 20 91, Telex 728 246trans d, Fax 02 28/33 20 95
Hardstrasse 41, CH-5430 Wettingen (b. Zürich),
Tel. 056/2718 93, Telex 826 340 elli ch, Fax 056/26 71 23

EUROTEC COMPONENTS



A Product Range of Adams Russell BV
Cork, Ireland.