



ANZAC RF & CELLULAR COMPONENTS

I/Q Modulators

+10 dBm CARRIER LEVEL, up to +1 dBm I/Q SIGNAL LEVEL

MODEL NO.	FREQUENCY (MHz)		CARRIER SUPPRESSION (dBc)		SINGLE SIDE-BAND REJECTION (dBc)		HARMONIC SUPPRESSION (dBc)		CONVERSION LOSS (dB)		CASE STYLE	UNIT PRICE(\$) (1 - 9)
	CARRIER	I/Q	Typ	Min	Typ	Min	3x I/Q Typ Min	5x I/Q Typ Min	Typ	Max		
EQKR8-45	43 - 47	DC - 5	38	30	37	30	50 45	60 55	5	6	R1	47.95
EQKR8-70	66 - 73	DC - 5	38	30	37	30	50 45	60 55	5	6	R1	47.95
EQKR8-90	86 - 94	DC - 5	38	30	37	30	50 45	60 55	5	6	R1	47.95
EQKR8-100	95 - 105	DC - 5	37	30	36	30	48 45	58 55	5	6	R1	69.95
EQKR8-130	123 - 136	DC - 5	37	30	36	30	48 45	58 55	5	6	R1	47.95
EQKR8-40W	30 - 50	DC - 5	35	30	35	30	48 45	58 55	5	6	R1	53.95
EQKR8-70W	50 - 90	DC - 5	35	30	35	30	48 45	58 55	5	6	R1	53.95
EQKR8-120W	90 - 150	DC - 5	35	30	35	30	48 45	58 55	5	6	R1	53.95

PIN OUT	CARRIER	RF OUT	I	Q	50 Ω TERMINATION	CASE GROUND
PIN NO.	1	8	5	6	2	3,4,7

TEST CONDITIONS

- These I/Q Modulators require I and Q signals 90° apart.
- Specifications depend on optimum I/Q signals at -7dBm. Other I/Q signal levels can be used. Contact factory for results with different I/Q levels.
- When Q leads I, lower sideband is suppressed. When Q lags I, upper sideband is suppressed. I is the reference, $Q = I \pm 90^\circ$
- Conversion loss is the difference between total power of both I/Q modulation inputs and desired RF out.

NOTES:

- Absolute maximum ratings
Carrier Power: 50mW
Peak IF Current: 40 mA
Operating and storage temperature: -55°C to +100°C
Pin Temperature (10's): +260°C
- Price and specifications subject to change without notice.
- Other frequencies and surface mount versions available on request.

+10 dBm CARRIER LEVEL, -7 dBm I/Q SIGNAL LEVEL

MODEL NO.	FREQUENCY (MHz)		CARRIER SUPPRESSION (dBc)		SINGLE SIDE-BAND REJECTION (dBc)		HARMONIC SUPPRESSION (dBc)		CONVERSION LOSS (dB)		CASE* STYLE	UNIT PRICE(\$) (1 - 9)
	CARRIER	I/Q	Typ	Min	Typ	Min	3x I/Q Typ Min	5x I/Q Typ Min	Typ	Max		
PM-123-1	806 - 824	DC - 2	40	34	40	36	40 36	60 55	6	7.5	SM7	47.
PM-123-2	810 - 830	DC - 2	40	34	40	36	40 36	60 55	6	7.5	SM7	47.
PM-123-3	824 - 849	DC - 2	40	34	40	36	41 37	60 55	6	7.5	SM7	47.
PM-123-4	869 - 894	DC - 2	40	34	40	36	41 37	60 55	6	7.5	SM7	47.
PM-123-5	890 - 910	DC - 2	40	34	40	36	42 38	60 55	6	7.5	SM7	47.
PM-123-6	905 - 925	DC - 2	40	34	40	36	42 38	60 55	6	7.5	SM7	47.
PM-123-7	940 - 960	DC - 2	40	34	40	36	44 40	60 55	6	7.5	SM7	47.

*Also available in leadless package
Operating temperature range 0-50°

PIN OUT	RF OUT	RF IN	I	Q	INTERNAL 50 Ω	CASE GROUND
PIN NO.	8	1	5	6	2	3,4,7

Immediate Delivery from Stock