

Plug-In Frequency Mixer

Level 7 (LO Power +7 dBm) 5 to 1000 MHz

SRA-2CM+



CASE STYLE: A01
PRICE: \$19.20 ea. QTY (1-9)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

LO	8
RF	1
IF	3,4^
GROUND	2,5,6,7
CASE GROUND	2,5,6,7

^ pins must be connected together externally

Features

- excellent conversion loss, 5.27 dB typ.
- good L-R isolation, 35 dB typ. L-I isolation, 30 dB typ.
- rugged welded construction
- hermetic

Applications

- VHF/UHF
- cellular
- defense & federal communications
- ISM/GSM

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

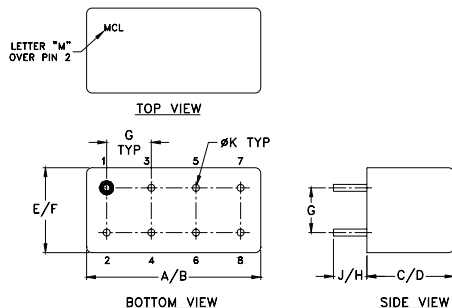
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF f_L - f_U	IF	Mid-Band m		Total Range Max.		L		M		U		L		M		U	
		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
5-1000	DC-1000	5.27	.04	7.0	8.5	60	50	35	30	30	25	50	45	30	25	25	20

1 dB COMP.: +1 dBm typ.

L = low range [f_L to $10 f_L$]
m = mid band [$2 f_L$ to $f_U/2$]

M = mid range [$10 f_L$ to $f_U/2$]
U = upper range [$f_U/2$ to f_U]

Outline Drawing



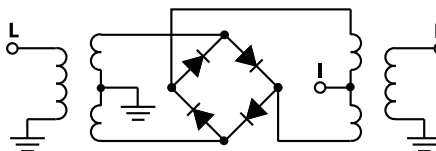
Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

Typical Performance Data

Frequency (MHz)		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)
RF	LO	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
5.00	35.00	7.36	67.00	67.00	5.03	4.09
38.13	68.13	5.59	54.82	53.34	1.40	3.04
71.27	41.27	5.30	49.15	48.13	1.31	2.99
137.53	107.53	5.33	46.10	45.22	1.27	2.83
200.00	170.00	5.35	42.68	41.91	1.24	2.82
236.93	206.93	5.27	41.09	40.29	1.24	2.72
303.20	273.20	5.28	39.42	38.94	1.24	2.76
336.33	306.33	5.42	39.72	36.88	1.26	2.77
402.60	372.60	5.63	38.13	35.49	1.30	2.85
468.86	438.86	5.62	37.15	35.09	1.37	2.84
535.13	505.13	5.87	35.49	32.57	1.45	2.97
568.26	538.26	6.01	35.26	31.27	1.50	2.96
634.53	604.53	6.17	36.03	29.46	1.61	3.10
700.79	670.79	6.68	38.00	30.29	1.70	3.21
767.06	737.06	6.49	38.00	29.92	1.85	3.09
800.19	770.19	6.11	39.26	28.34	2.01	3.03
833.33	803.33	6.37	39.87	27.52	2.08	3.08
899.59	869.59	6.80	40.23	26.99	2.32	3.39
965.86	935.86	6.86	42.61	25.65	2.53	3.58
1000.00	969.00	7.10	44.90	24.17	2.76	3.76

Electrical Schematic



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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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Page 1 of 2

