Frequency Mixer

ZX05-42MH+ **ZX05-42MH**

Level 13 (LO Power +13 dBm) 5 to 4200 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

Coaxial Connections

LO	1
RF	2
IF	3

Features

- · rugged construction
- · small size
- · low convesion loss
- · high L-R isolation
- protected by US Patents 6,133,525 & 6,790,049

Applications

- cellular
- · PCS
- instrumentation
- · satellite communication

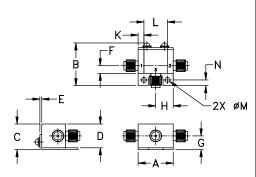
CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-42MH-S(+)	\$39.95 ea.	(1-24)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Outline Drawing



Outline Dimensions (inch)

G	(F	Е	D	С	В	Α
29	.2	.16	.04	.50	.54	.90	.74
37	7.3	4.06	1.02	12.70	13.72	22.86	18.80
vt	v	N	M	L	K	J	Н
าร	gram	.122	.106	.496	.122		.37
.0	20	3 10	2.69	12 60	3 10		9.40

Electrical Specifications (T_{AMB}=25°C)

						•				•			•					
FREQUENCY (MHz)		CONVERSION LOSS (dB)					LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)				IP3 at center band				
LO/RF	IF	N	/lid-Ba m	nd	Total		L	ı	М	ı	J	ı	L	ı	И	ι	J	(dBm)
f_L - f_U		X	σ	Max.	Range Max.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.
5-4200	DC-3500	7.5	0.2	9.8	11.8	47	28	29	20	30	15	34	23	26	17	23	17	19

1 dB COMP.: +9 dBm tvp.

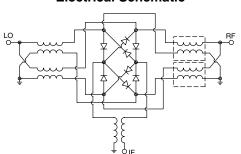
L = low range [f_L to 10 f_L] m= mid band [$2f_L$ to $f_U/2$]

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

Typical Performance Data

Freq (M	uency IHz)	Conversion Loss (dB)	Isolation L-R (dB)	R L-I RFI		VSWR LO Port (:1)
RF	LO	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
5.10	35.10	7.31	45.95	33.54	1.31	2.39
20.10	50.10	7.13	55.97	35.83	1.21	2.33
100.10	70.10	7.16	55.79	35.64	1.18	2.30
305.66	275.66	7.25	42.66	33.81	1.09	2.24
516.77	486.77	7.39	38.77	31.55	1.18	2.11
727.88	697.88	7.37	37.99	28.97	1.43	1.91
938.99	908.99	7.48	39.66	27.24	1.79	1.79
1150.10	1120.10	7.63	46.71	25.76	2.01	1.65
1361.21	1331.21	7.98	46.26	24.65	2.17	1.53
1572.32	1542.32	8.18	40.21	24.25	2.31	1.45
1783.43	1753.43	8.20	36.57	24.45	2.07	1.35
1994.54	1964.54	8.27	34.51	24.79	1.97	1.34
2200.10	2170.10	8.25	32.76	24.92	1.88	1.36
2485.81	2455.81	8.28	31.48	24.30	1.95	1.35
2771.53	2741.53	8.66	30.19	23.95	1.86	1.35
3057.24	3027.24	8.99	28.98	24.12	1.96	1.27
3342.96	3312.96	9.21	28.90	24.58	1.80	1.11
3628.67	3598.67	9.11	29.94	25.59	1.81	1.14
3914.39	3884.39	9.25	31.33	26.21	1.38	1.25
4200.10	4170.10	9.88	31.78	27.67	1.21	1.39

Electrical Schematic









Performance Charts

