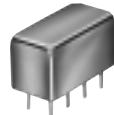


## LEVEL 27 0.5 to 500 MHz



VAY

+27 dBm LO, up to +24 dBm RF

MODEL NO.	FREQUENCY MHz		CONVERSION LOSS dB				LO-RF ISOLATION, dB			LO-IF ISOLATION, dB			CASE STYLE	Z00-CMPZ00	PRICE \$						
	LO/RF	IF	Mid-Band		Total	L	M	U	L	M	U										
	$f_L-f_U$		$\bar{x}$	$\sigma$	Range Max.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.										
VAY-1	0.5-500	.02-500	5.79	.15	7.5	8.5	47	40	46	35	35	25	35	28	46	35	35	25	A01	m	84.95

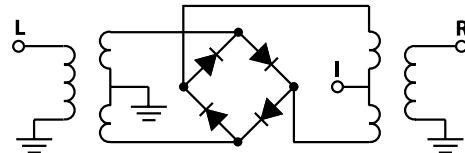
L = low range [ $f_L$  to  $10 f_L$ ]

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

U = upper range [ $f_U/2$  to  $f_U$ ]

### NOTES:

- $\bar{x}$  Average of conversion loss at center of mid-band frequency ( $f_L+f_U/4$ )
- $\sigma$  Standard deviation
- \* IF response from .01 to .1 MHz falls off 3 dB
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in section 0, see "Mini-Circuits Guarantees Quality" article.
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
  - 1a. Level 23 mixers, RF power 350mW
  - 1b. Level 27 mixers, RF power 500mW
  - 1c. Peak IF current, 40mA



### pin and coaxial connections

see case style outline drawings

PORT	d	e	f	m	s	ad	ae
LO	8	8	8	8	1	1	1
RF	1	1	1	1	8	2	3
IF	3,4^	3,4^	3,4^	3	3	3	2
GND EXT.	2,5,6,7	2,5,6,7	2,5,6,7	2,5,6,7	2,5,6,7	2,5,6,7	
CASE GND	—	2	2,5,6,7	2,5,6,7	2,5,6,7		
NOT USED	—	—	—	4	4		

^ pins must be connected together externally

### NSN GUIDE

MCL NO.	NSN
RAY-1	5895-01-105-6188
RAY-2	5895-01-111-7368
RAY-3	5895-01-064-5082
RAY-6	5895-01-317-5882
SAY-11	5895-01-199-3893
VAY-1	5895-01-232-5890
ZMY-1B	5895-01-213-3888
ZMY-2	4935-01-080-7636

\*units are not QPL listed



The Design Engineers Search Engine

Provides Actual Data Instantly  
 At: <http://www.minicircuits.com>

In Stock... Immediate Delivery

For Custom Versions Of Standard Models  
 Consult Our Applications Dept.

