

## Self-Cooled

# VERY HIGH POWER 50W, 20 to 1000MHz



LZY-X\*



LZY

up to 50W (+47 dBm) output

MODEL NO.	FREQ. (MHz) $f_L$ - $f_U$	GAIN (dB)		POWER (dBm)			DYNAMIC RANGE		VSWR		DC POWER		CASE STYLE Note B	N O T C O M P O S I T I O N	PRICE \$ Qty. (1-9)
		Min.	Flatness Max.	Min. Output (1 dB Comp.)	Max. Output Typ.	Max. Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V)	Max. Current** (A)			
LZY-1	20 - 512	39	±1.5	+44	+47	+10	8.6*	54	2.0:1	*	+26	7.3	BT412	—	1995.00
LZY-2	500 -1000	40	±1.5	+43	+45	+10	8.0	54	2.0:1	3.5:1	+28	8.0	BT451	—	2195.00

\* To order without heat sink and fan, add suffix -X to model number.  
Alternative heat sinking and heat removal must be provided by customer to ensure proper performance. See application note AN-60-004 for LZY-1, AN-60-005 for LZY-2. Deduct \$100 from price list.

### features

- saturated power 50W typ. (LZY-1) and 32W typ. (LZY-2)
- high power with low distortion, -32 dBc typ. (LZY-1) and -45 dBc typ. (LZY-2) harmonics at 20 watts
- wide bandwidth, usable 10 - 525 MHz and 475 - 1050 MHz
- high gain, 42 dB typ. (LZY-1) and 47 dB typ. (LZY-2)
- unconditionally stable
- self protected against excessive drive, high case temp., reverse polarity and shorting/unshorting transients at dc input
- electronic shutoff by grounding the shut-off terminal, reduces output by 50 dB. Open circuiting terminal restores full power within 100 μ sec.
- cool operation with integral fan, 15° C typ. rise
- graceful degradation, +20 to +30V DC
- can withstand short and open circuit at output for 2 minutes while delivering 20 watts

### NOTES:

- \* 80-512 MHz, at 20 MHz 11.6 dB typ.
- \*\* At 25W output for LZY-1 and 20W for LZY-2; includes fan
- 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.
- D. For Quality Control Procedures see Table of Contents, Section 0, "Mini-Circuits Guarantees Quality" article. For environmental Specifications see Amplifier Selection Guide.
- 1. Absolute max. dc voltage: +30V
- 2. Operating air-ambient temp. for specified performance: -10°C to 50°C
- 3. Max. storage temp.: -55°C to 100°C
- ⚡ VSWR 9:1 typ. up to 450 MHz, all specifications for 50 ohm load.