

LCD4028.0003

Parameter	Notes	Min.	Nom./Typ. ^A	Max.	Units
Frequency Range		3.4		4.2	GHz
Gain		60	64	66	dB
Gain Flatness	Full band			±0.5	dB
	Per 40 MHz			±0.2	dB
VSWR	Input		1.20	1.25	:1
	Output		1.20	1.50	:1
Noise Temperature ^B	At +23 °C			28.0	K
Power Output	At 1 dB compression	+10	+15		dBm
3rd Order Output Intercept Point		+20	+26		dBm
Group Delay per 40 MHz	Linear			0.01	ns/MHz
	Parabolic			0.001	ns/MHz ²
	Ripple			0.1	ns p-p
AM/PM Conversion	-5 dBm output power			0.05	%dB
Gain Stability (Constant Temp)	Short term (10 min)			±0.1	dB
	Medium term (24 hrs)			±0.2	dB
	Long term (1 week)			±0.5	dB
Gain Stability	Versus temperature		-0.05		dB per °C
Maximum Input Power	Damage threshold			0	dBm
	Desens. threshold, 5.825-6.425 GHz			-10	dBm
Connectors	Input		CPR 229G Flange		
	Output		Type N Female		
	Power		PT02E10-6P-027 (mate supplied)		
Power Requirements	Voltage	12	15	24	V
	Current, standard		140	180	mA
Operating Temperature		-40		+70	°C
MTBF (MIL-HDBK-217F)	Ground fixed, +40 °C		296,000		hours

^A When there is only one value on a line, the Nom./Typ. column is a nominal value; otherwise it is a typical value. Typical values are intended to illustrate typical performance, but are not guaranteed.

^B Maximum noise temperature at +23 °C at any frequency in the specified band.

Other Products

- Low Noise Amplifiers and LNA Systems
- Solid-State Power Amplifiers and SSPA Systems
- General Purpose Converters
- Satellite Communications Equipment
- Custom Subsystems

GENERAL DYNAMICS SATCOM Technologies

60 Decibel Road, Suite 200 • State College, PA 16801 USA • Tel. 814 238 2700 • FAX 814 238 6589
www.gdsatcom.com/electronics.php

28679 Rev. A ECR 12672 10/6/14 DRS

© General Dynamics. All rights reserved. General Dynamics reserves the right to make changes to its products and specifications at any time and without notice. All trademarks indicated as such herein are trademarks of General Dynamics. All other product and service names are the property of their respective owners.