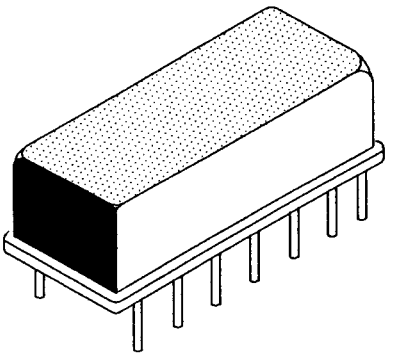
POLARA

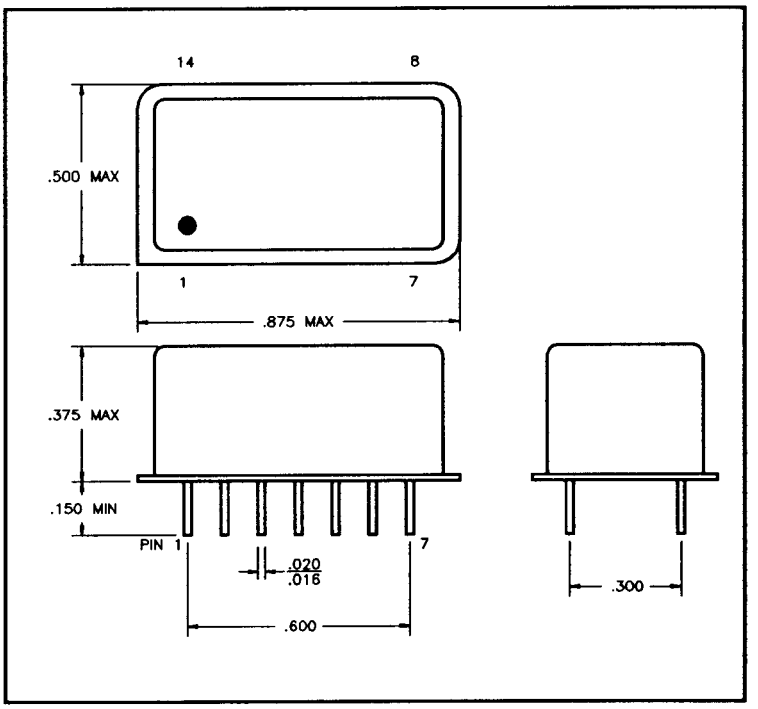
ACG–SERIES

MILITARY GRADE, HERMETICALLY SEALED METAL CAN 14 PIN, 10 TAP TTL ACTIVES

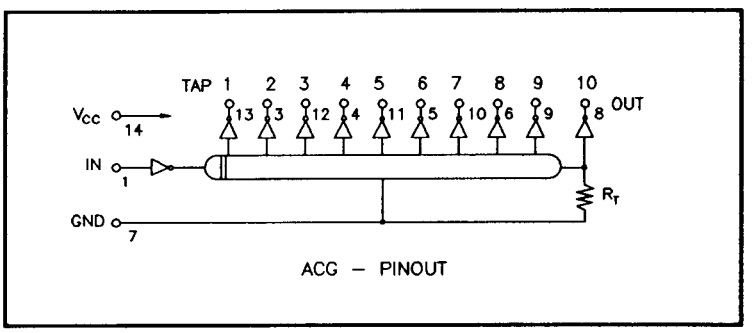
DC Electrical Characteristics Parameter		Test Conditions	Min	Max	Unit
V_{OH}	High–Level Output Voltage	V_{CC}=min. V_{IL}=max. I_{OH}=max	2.7		V
V_{OL}	Low Level Output Voltage	V_{CC}=min. V_{IH}=min. I_{OL}=max		0.5	V
V_{IK}	Input Clamp Voltage	V_{CC}=min. I_I=–18mA		–1.2	V
I_{IH}	High–Level Input Current	V_{CC}=max. V_{IN}=2.7V		50	uA
		V_{CC}=max. V_{IN}=5.25V		1.0	mA
I_{IL}	Low–Level Input Current	V_{CC}=max. V_{IN}=0.5V		–2	mA
I_{OS}	Short Circuit Output Current	V_{CC}=max. V_{OUT}=0 (One output at a time)	–40	–100	mA
I_{CCH}	High–Level Supply Current	V_{CC}=max. V_{IN}=OPEN		150	mA
I_{CCL}	Low–Level Supply Current	V_{CC}=max. V_{IN}=0		150	mA
T_{RO}	Output Rise Time	Td ≤ 500nS(0.75 to 2.4 Volts)		4	nS
		Td > 500nS		5	nS
N_H	Fanout High–Level Output	V_{CC}=max. V_{OH}=2.7V		20 TTL LOAD	
N_L	Fanout Low–Level Output	V_{CC}=max. V_{OH}=0.5V		10 TTL LOAD	



Recommended Operating Conditions		Min	Max	Unit
V_{CC}	Supply Voltage	4.75	5.25	V
V_{IH}	High–level Input voltage	2.0		V
V_{IL}	Low–Level Input Voltage		0.8	V
I_{OH}	High–Level Output Current		–1.0	mA
I_{OL}	Low–Level Output Current		20	mA
PW	Pulse Width % of Total Delay	40		%
T_A	Operating Free–Air Temperature	–55	+125	°C



Input Pulse Test Conditions @ 25°C			Unit
E_{IN}	Pulse Input Voltage	3.2	Volts
PW	Pulse Width % of Total Delay	110	%
T_{RI}	Pulse Rise Time(0.75 – 2.4 Volts)	2.0	nS
PRR	Pulse Repetition Rate @ Td ≤ 200 nS	1.0	MHz
	Pulse Repetition Rate @ Td > 200 nS	100	KHz
V_{CC}	Supply Voltage	5.0	Volts



TOTAL DELAYS nS ± 5%	TAP DELAYS ± 2 nS OR 5%	POLARA P/N ACG – PINOUT
50	5	ACG–0050
100	10	ACG–0100
150	15	ACG–0150
200	20	ACG–0200
250	25	ACG–0250
300	30	ACG–0300
500	50	ACG–0500

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