

✓ **54/7416** 010629

HEX INVERTER BUFFER/DRIVER (With Open-Collector High-Voltage Output)

ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		$V_{CC} = +5.0\text{ V} \pm 5\%$, $T_A = 0^\circ\text{C to } +70^\circ\text{C}$	$V_{CC} = +5.0\text{ V} \pm 10\%$, $T_A = -55^\circ\text{C to } +125^\circ\text{C}$	
Plastic DIP (P)	A	7416PC		9A
Ceramic DIP (D)	A	7416DC	5416DM	6A
Flatpak (F)	A	7416FC	5416FM	3I

INPUT LOADING/FAN-OUT: See Section 3 for U.L. definitions

PINS	54/74 (U.L.) HIGH/LOW
Inputs	1.0/1.0
Outputs	OC**/10

DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER		54/74		UNITS	CONDITIONS	
			Min	Max			
VOL	Output LOW Voltage	XC	0.7		V	IO _L = 40 mA	V _{CC} = Min V _{IN} = V _{IH}
		XM	0.7			IO _L = 30 mA	
		XC, XM	0.4			IO _L = 16 mA	
IOH	Output HIGH Current		0.25		mA	VO _H = 15 V, V _{CC} = Min V _{IN} = V _{IL}	
ICCH	Power Supply Current		48		mA	V _{IN} = Gnd	V _{CC} = Max
ICCL			51			V _{IN} = Open	
tPLH	Propagation Delay		15		ns	Figs. 3-2, 3-4	
tPHL			23				

*DC limits apply over operating temperature range; AC limits apply at $T_A = +25^\circ\text{C}$ and $V_{CC} = +5.0\text{ V}$.

**OC — Open Collector

CONNECTION DIAGRAM PINOUT A

