

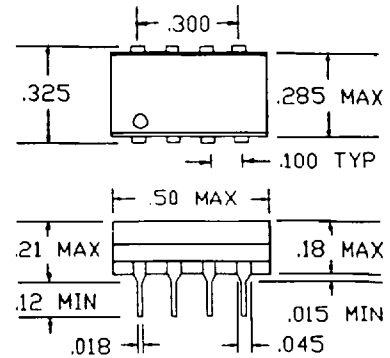
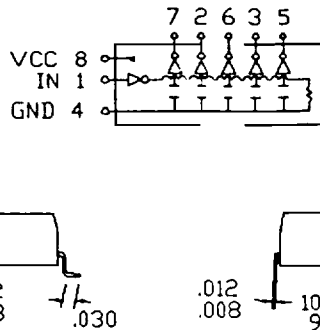
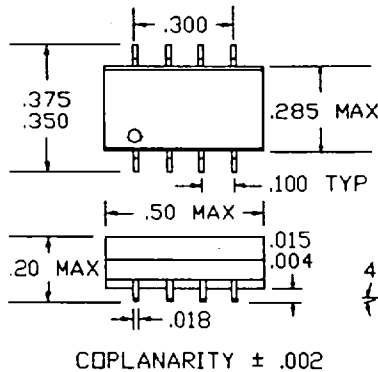
# bel / defining a degree of excellence

## FAST

## LOGIC DELAY MODULES 5 TAP LEADING EDGE CONTROL

### S423 SERIES

### A463 SERIES



SMD PART NUMBER	THRU-HOLE PART NUMBER	TOTAL DELAY	DELAY PER TAP	RISE TIME
S423-0010-02	A463-0010-02	* 8 NS	2 NS	3 NS
S423-0015-02	A463-0015-02	* 12 NS	3 NS	3 NS
S423-0020-02	A463-0020-02	* 16 NS	4 NS	3 NS
S423-0025-02	A463-0025-02	25 NS	5 NS	3 NS
S423-0030-02	A463-0030-02	30 NS	6 NS	3 NS
S423-0035-02	A463-0035-02	35 NS	7 NS	3 NS
S423-0050-02	A463-0040-02	40 NS	8 NS	3 NS
S423-0045-02	A463-0045-02	45 NS	9 NS	3 NS
S423-0050-02	A463-0050-02	50 NS	10 NS	3 NS
S423-0060-02	A463-0060-02	60 NS	12 NS	3 NS
S423-0070-02	A463-0070-02	70 NS	14 NS	3 NS
S423-0080-02	A463-0080-02	80 NS	16 NS	3 NS
S423-0090-02	A463-0090-02	90 NS	18 NS	3 NS
S423-0100-02	A463-0100-02	100 NS	20 NS	3 NS
S423-0125-02	A463-0125-02	125 NS	25 NS	3 NS
S423-0150-02	A463-0150-02	150 NS	30 NS	3 NS
S423-0200-02	A463-0200-02	200 NS	40 NS	3 NS

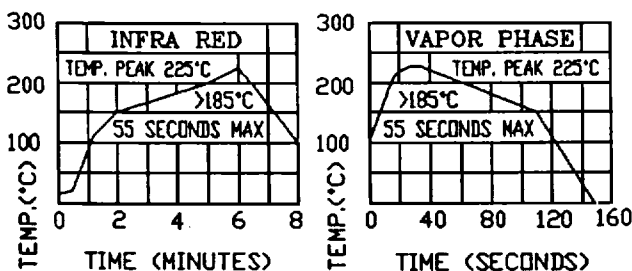
DELAYS MEASURED AT 1.5 V LEVELS ON LEADING EDGE WITH NO LOADS ON TAPS  
RISE & FALL TIMES MEASURED FROM 0.75 V TO 2.4 V  
\* REF. DELAY FROM P7, DELAY P1-P7 = 4.5 NS TYPICAL

OTHER DELAYS AND TOLERANCES UPON REQUEST

#### TOLERANCES

INPUT TO TAPS ± 2 NS OR 5% WHICHEVER IS GREATER  
TAP TO TAP ± 2 NS OR 7% WHICHEVER IS GREATER  
RISE/FALL TIMES - MAXIMUM

#### SMD SOLDERING TEMPERATURE PROFILES



#### TEST CONDITIONS

Ein	PULSE VOLTAGE	3.2 VOLTS
Trin	RISE TIME	3.0 NS (10%-90%)
PW	PULSE WIDTH	1.2 x TOTAL DELAY
PP	PULSE PERIOD	4 x PULSE WIDTH
Iccl	SUPPLY CURRENT	35 ma TYPICAL
Vcc	SUPPLY VOLTAGE	5.0 VOLTS
Ta	AMBIENT TEMPERATURE	25°C

#### ELECTRICAL CHARACTERISTICS

	MIN	MAX	UNIT
Vcc	4.75	5.25	V
Vih	2.0		V
Vil		0.8	V
Iik		-18	mA
Ioh		-1	mA
Iol		20	mA
Voh	2.7		V
Vol		0.5	V
Vik		-1.2	V
Iih		20	uA
Iil		-0.6	mA
Ios	-60	-150	mA
Icch		25	mA
Iccl		40	mA
Ta	0°	+70°	C
PW	40%		OF TOTAL DELAY
d	50%		MAXIMUM DUTY CYCLE
Tc	100*(25000/TOTAL DELAY)		PPM/°C

#### DRIVE CAPABILITIES

Nh	LOGIC 1 FANOUT	20 TTL LOADS MAX
Nl	LOGIC 0 FANOUT	10 TTL LOADS MAX

#### NOTES:

- \* TRANSFER MOLDED FOR BETTER RELIABILITY
- \* COMPATIBLE WITH TTL AND DTL CIRCUITS
- \* TERMINALS: ELECTRO-TIN PLATE PHOSPHOR BRONZE
- \* PERFORMANCE WARRANTY IS LIMITED TO SPECIFIED PARAMETERS LISTED

|| SMD ONLY ||

- \* TAPE & REEL AVAILABLE - 24mm WIDE x 12mm PITCH 500 PIECES/13" REEL
- \* DESIGNED FOR VAPOR PHASE OR IR SOLDERING WITH TEMPERATURES BELOW 230°C FOR UP TO 90 SECONDS

\* SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CAT7 R4-1/30-95

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\*BELFS010\*