

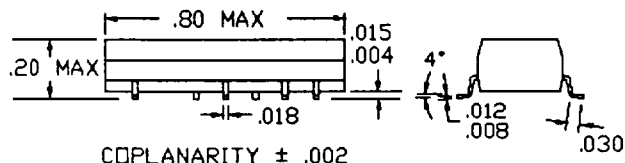
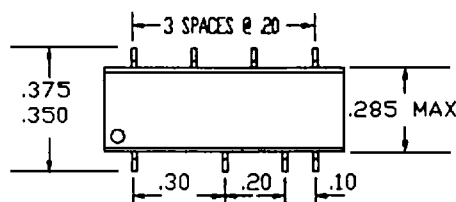
bel / defining a degree of excellence

FAST

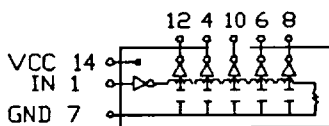
LOGIC DELAY MODULES

5 TAP LEADING & TRAILING EDGE CONTROL

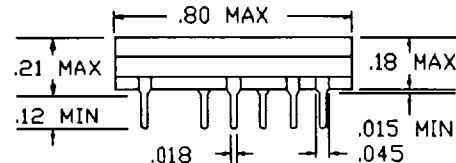
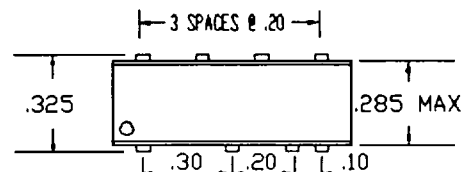
S422 SERIES



COPLANARITY $\pm .002$



A447 SERIES



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	MINIMUM INPUT PULSE WIDTH	20% OF TOTAL DELAY
d	MAXIMUM DUTY CYCLE	50%
Tc	TEMP. COEFF. OF TOTAL DELAY	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

II SMD ONLY II

- * TAPE & REEL AVAILABLE - 32mm WIDE x 16mm 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

SMD PART NUMBER	THRU-HOLE PART NUMBER	TOTAL DELAY	DELAY PER TAP	RISE TIME
S422-0025-A1	A447-0025-A1	25 NS	5 NS	3 NS
S422-0030-A1	A447-0030-A1	30 NS	6 NS	3 NS
S422-0040-A1	A447-0040-A1	40 NS	8 NS	3 NS
S422-0050-A1	A447-0050-A1	50 NS	10 NS	3 NS
S422-0060-A1	A447-0060-A1	60 NS	12 NS	3 NS
S422-0070-A1	A447-0070-A1	70 NS	14 NS	3 NS
S422-0080-A1	A447-0080-A1	80 NS	16 NS	3 NS
S422-0090-A1	A447-0090-A1	90 NS	18 NS	3 NS
S422-0100-A1	A447-0100-A1	100 NS	20 NS	3 NS
S422-0125-A1	A447-0125-A1	125 NS	25 NS	3 NS
S422-0150-A1	A447-0150-A1	150 NS	30 NS	3 NS
S422-0200-A1	A447-0200-A1	200 NS	40 NS	3 NS
S422-0250-A1	A447-0250-A1	250 NS	50 NS	3 NS
S422-0300-A1	A447-0300-A1	300 NS	60 NS	4 NS
S422-0350-A1	A447-0350-A1	350 NS	70 NS	4 NS
S422-0400-A1	A447-0400-A1	400 NS	80 NS	4 NS
S422-0450-A1	A447-0450-A1	450 NS	90 NS	4 NS
S422-0500-A1	A447-0500-A1	500 NS	100 NS	5 NS

DELAYS MEASURED AT 1.5 V LEVELS ON LEADING AND TRAILING EDGE WITH 15pF LOADS ON TAPS

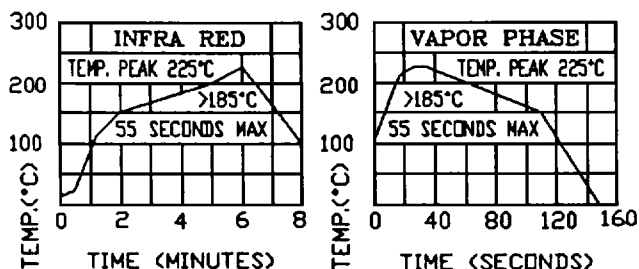
RISE & FALL TIMES MEASURED FROM 0.75 V TO 2.4 V

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



CAT3

R3-1/27/94

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