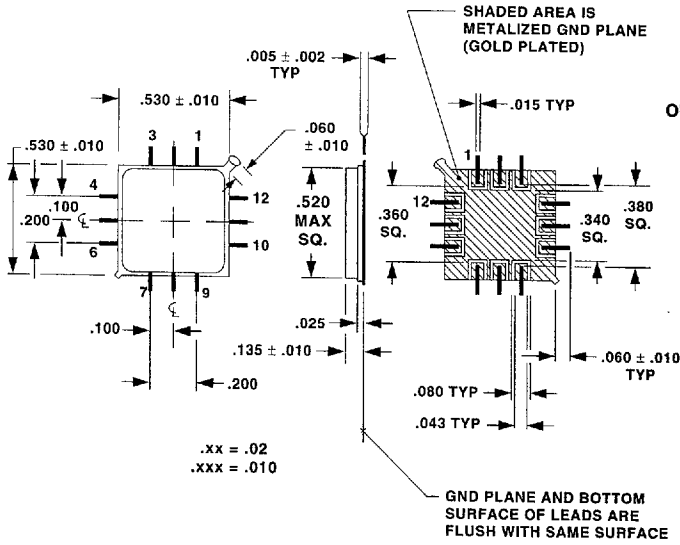
FEATURES

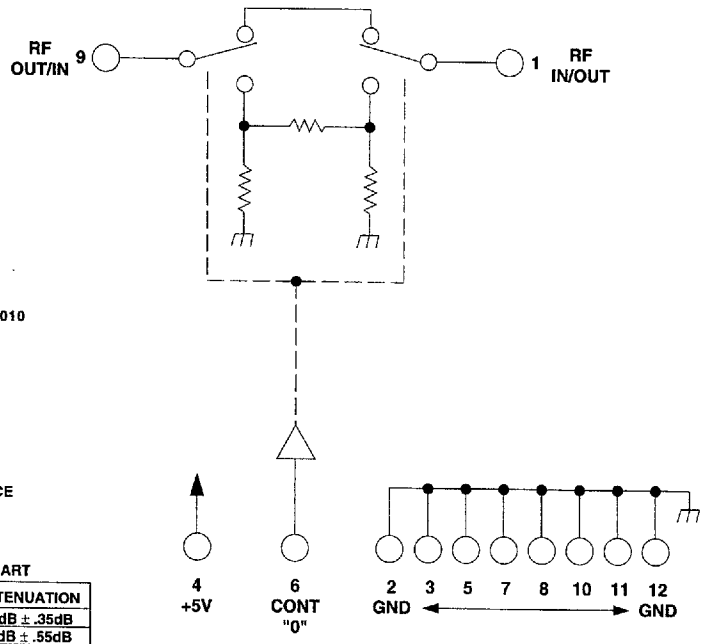
- 20 - 700 MHz
- 0.4 mA, +5 VDC
- 22 nSec Switching Speed
- 10 nSec Rise Time
- 10, 20, or 30 dB Steps
- TTL Driver

1 BIT

MODEL NO. DAT15015

GaAs 1 Section Attenuator



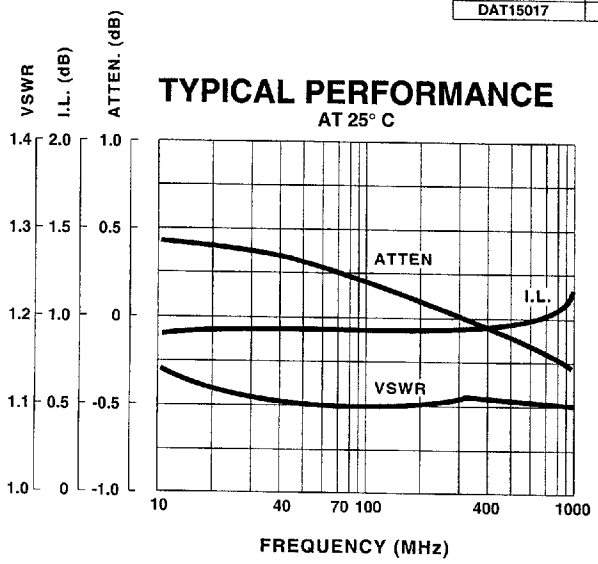


TABULATION CHART

PART NUMBER	ATTENUATION
DAT15015	10dB ± .35dB
DAT15016	20dB ± .55dB
DAT15017	32dB ± .75dB

TYPICAL PERFORMANCE

AT 25° C



GUARANTEED PERFORMANCE

PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
OPERATING FREQUENCY	20		700	MHz	
DC CURRENT		0.4	1	mA	AT +5 VDC SUPPLY
CONTROL TYPE		TTL			1 LINE, REVERSE LOGIC AVAILABLE LOGIC "0" = THRU LOGIC "1" = ATTENUATION
CONTROL CURRENT: HIGH LOW		0 0	±20 ±20	µA µA	VIH = +3.0V VIL = +0.5V
INSERTION LOSS		1.0	1.5	dB	
ATTENUATION LSB RANGE ACCURACY				dB dB dB	SEE TABLE SEE TABLE SEE TABLE
VSWR		1.1/1	1.25/1		
IMPEDANCE		50		OHMS	
SWITCHING SPEED		22	35	nSEC	50% TTL TO 90% / 10% RF
TRANSITION (RISE/FALL) TIME		10		nSEC	90% / 10% OR 10% / 90% RF
SWITCHING (VIDEO) TRANSIENTS		45		mV	PEAK VALUE
INTERCEPT POINTS, 2ND 3RD		+68 +35		dBm dBm	140 MHz / 200 MHz 140 MHz / 100 MHz
RF POWER: OPERATE NO DAMAGE		+12	+10 +27	dBm dBm	0.1 dB COMPRESSION
OPERATING TEMPERATURE	-55	+25	+125	°C	TA

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