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Features

- Very High Speed Operation 3.3GHz
- Silicon Technology for low Phase Noise (Typically better than -140dBc/Hz at 10kHz)
- Specified Over the Full Military Temperature Range
- Low Power Dissipation 370mW (typ)
- 5V Single Supply Operation
- High Input Sensitivity
- Very Wide Operating Frequency Range
- Available as DESC SMD 5962-9056701MPA

Description

The SP8804 is one of a range of very high speed low power prescalers for professional and military applications. The device features a complementary output stage with on chip current source for the emitter follower outputs.

DS2112

ISSUE 7.3

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Ordering Information

SP8804/A/DG Military temperature range
DES9056701/AC/DGAZ (SMD)

Thermal Characteristics

$\theta_{ja} = 150^{\circ}\text{C/W}$
 $\theta_{jc} = 50^{\circ}\text{C/W}$

Absolute Maximum Ratings

Supply voltage V_{CC}	6.5V
Clock Input voltage	2.5V p-p
Storage temperature range	-65°C to +150°C
Junction temperature	+175°C

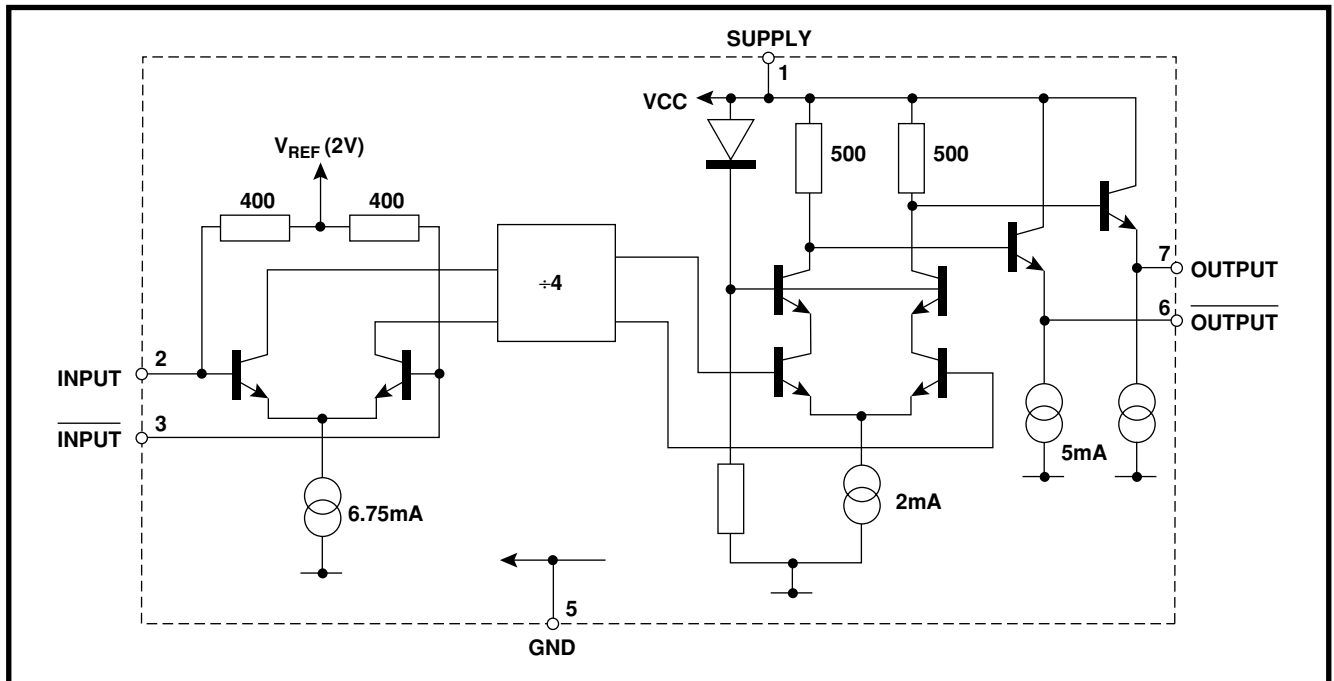
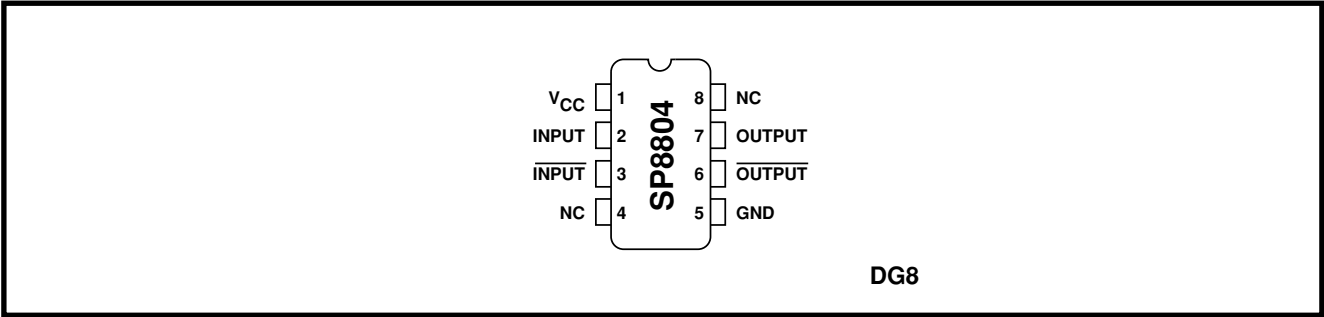


Figure 1 SP8804 Block diagram



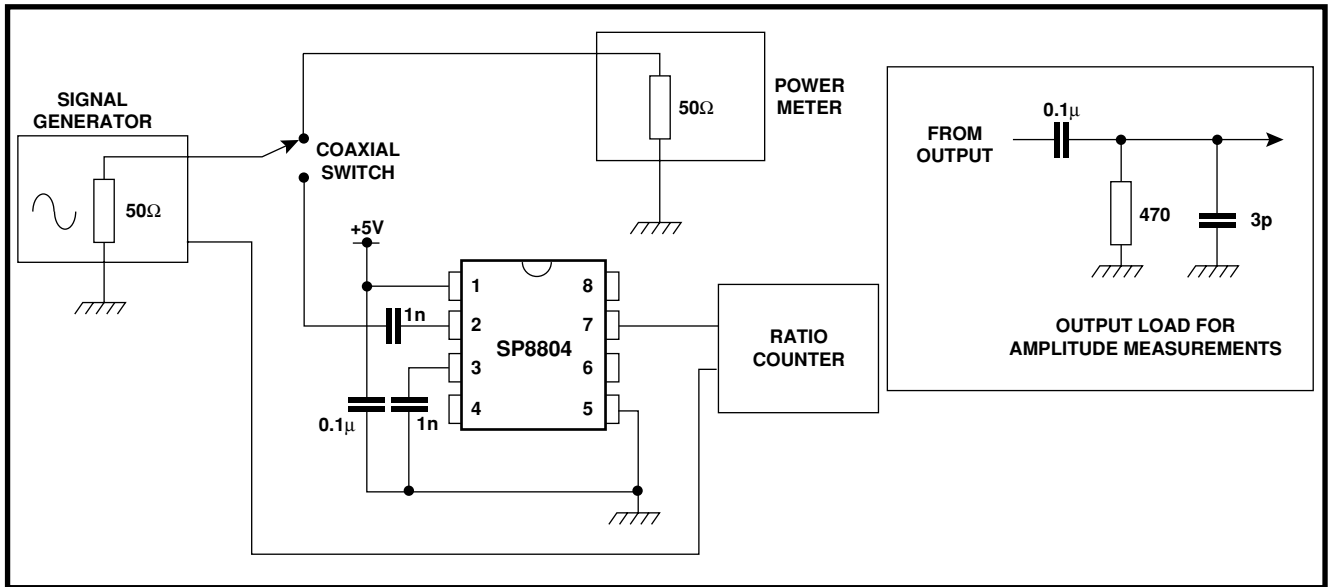


Figure 4 Test circuit

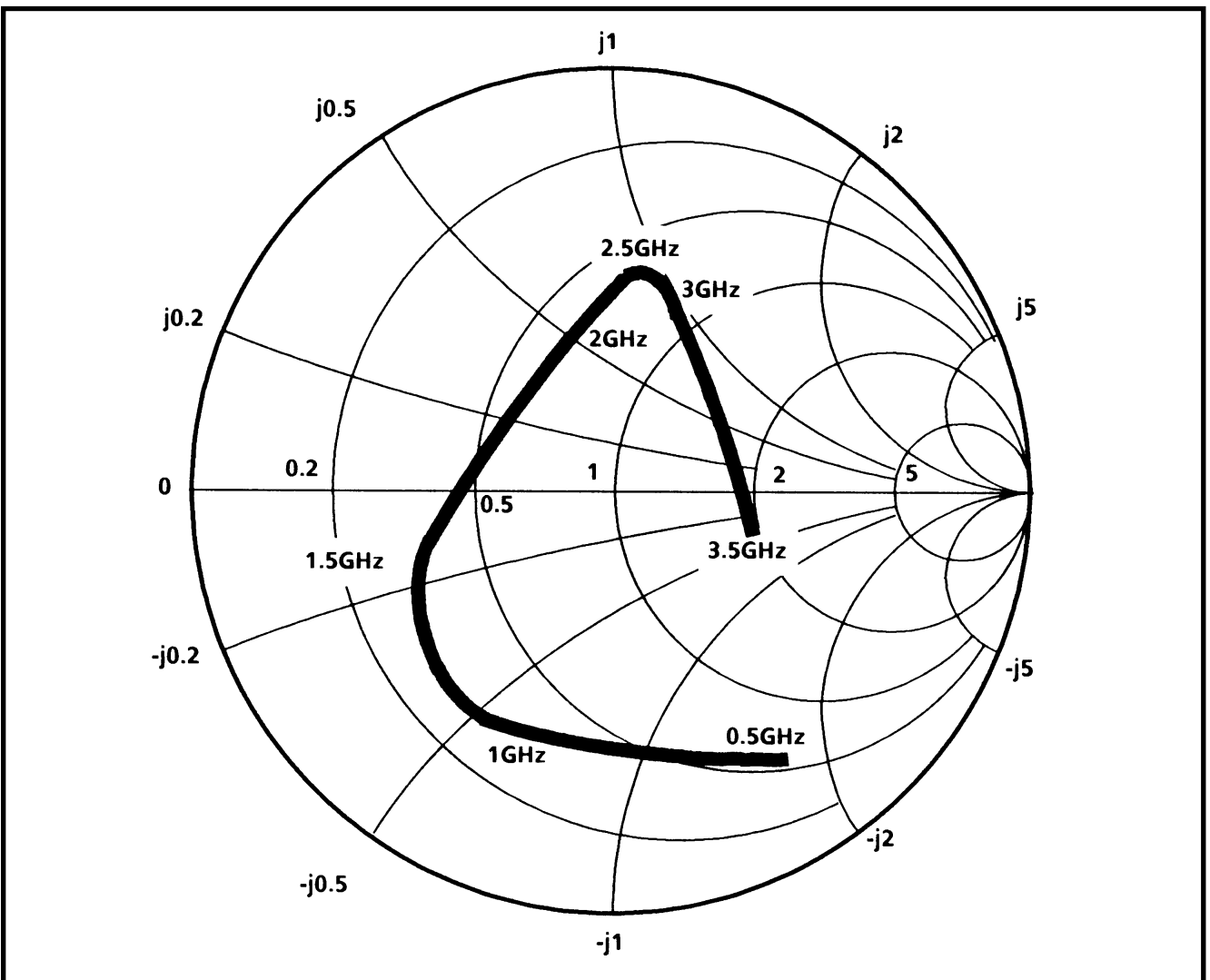
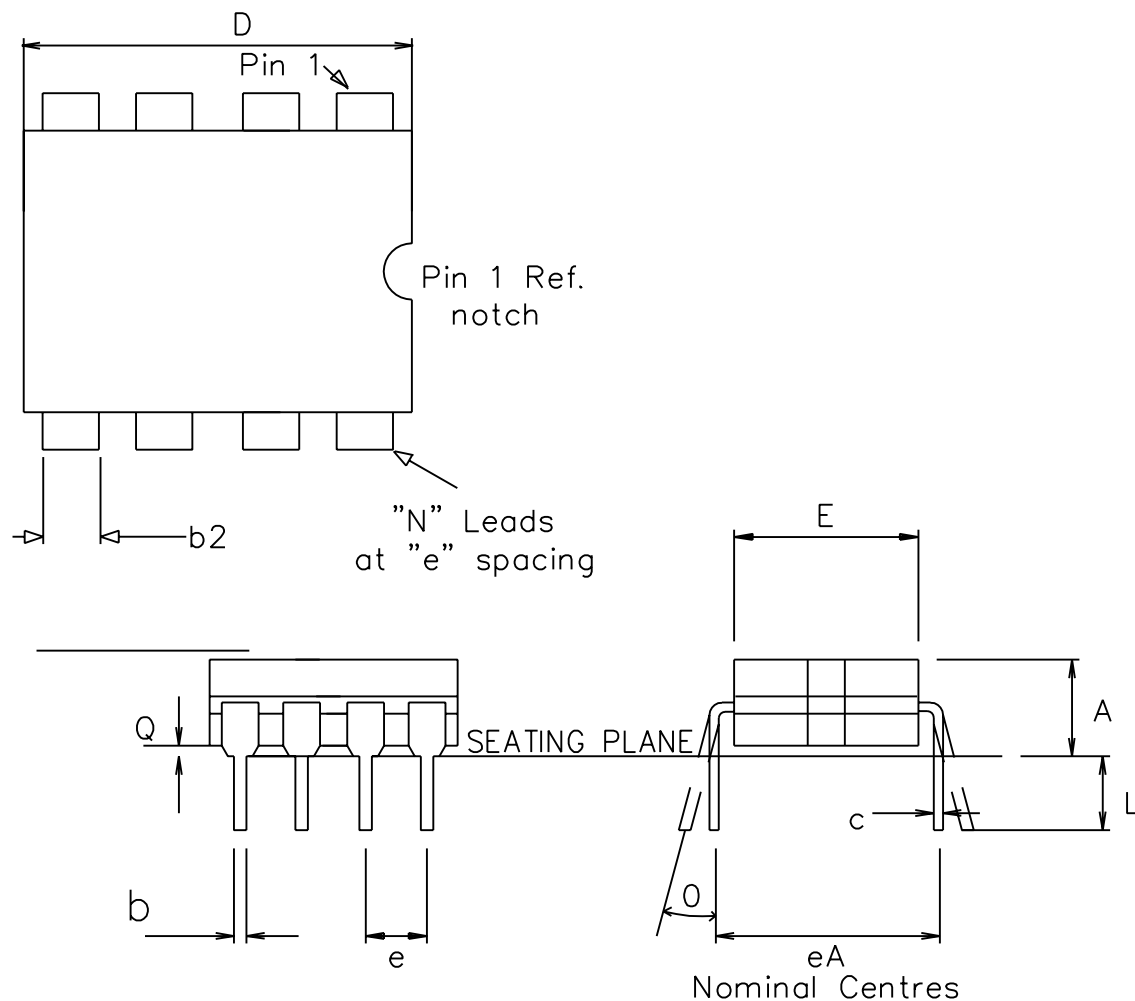


Figure 5 Typical input impedance



Symbol	Altern. Dimensions in millimetres			Control Dimensions in inches		
	MIN	Nominal	MAX	MIN	Nominal	MAX
L	3.18		4.06	0.125		0.160
A			5.08			0.200
Q	0.51			0.020		
E	5.59		7.87	0.220		0.310
eA		7.62			0.300	
c	0.20		0.36	0.008		0.014
D			10.29			0.405
e	2.54 BSC.			0.100 BSC.		
b2	1.14		1.65	0.045		0.065
b	0.36		0.58	0.014		0.023
0			15			15
Pin features						
N	8					
ND	4					
NE	0					
NOTE	RECTANGULAR					

This drawing supersedes 418/ED/39501/001 (Swindon)

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ISSUE	1	2				Previous package codes DG / C	Package Outline for 8 lead DIL (Glass Seal Ceramic)
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