

Three Five Product Information

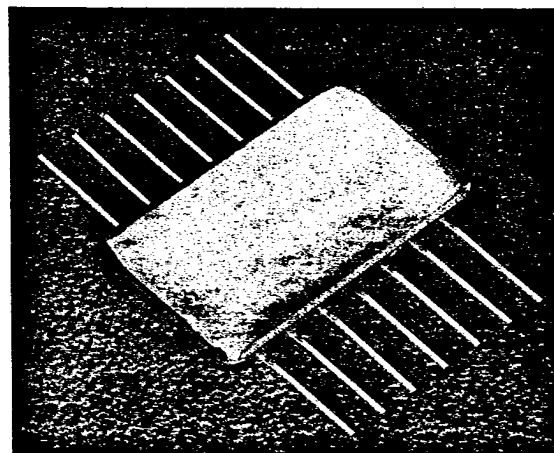


GaAs MMIC Switch P35-4251

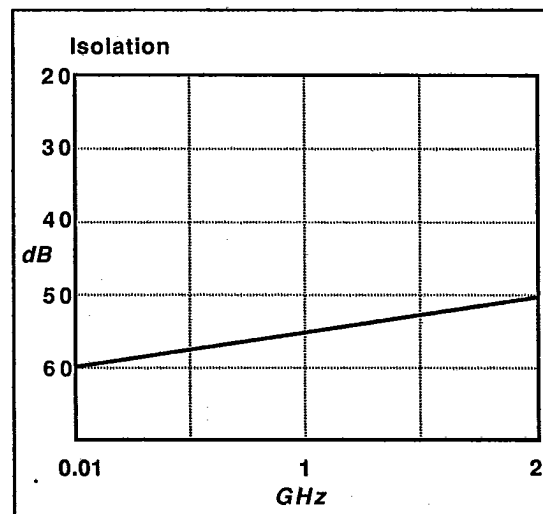
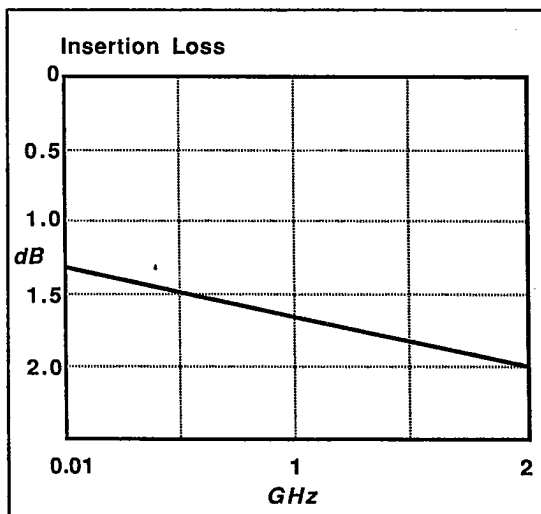
**2GHz SP4T non-reflective switch
with CMOS/TTL compatible driver**

Features

- Packaged Broadband GaAs switch with CMOS/TTL compatible interface.
- 10MHz to 2GHz frequency range.
- Low power consumption.
- Non-reflective outputs in off-state.
- Glass to metal package.



Typical Performance



T-51-11

P35-4251**RF Specification (at 25°C)**

Parameter	Conditions	Min.	Typ.	Max.	Units
Insertion Loss	Frequency 10MHz	-	1.3	1.6	dB
	1GHz	-	1.7	2.0	
	(See Note 1) 2GHz	-	1.9	2.2	
Isolation	Frequency 10MHz	55	60	-	dB
	1GHz	50	55	-	
	(See Note 1) 2GHz	40	48	-	
Input VSWR	Frequency 10MHz	-	1.3	1.5	
	1GHz	-	1.3	1.5	
	(See Note 1) 2GHz	-	1.3	1.5	
Output VSWR	Frequency 10MHz	-	1.2	1.3	
	1GHz	-	1.2	1.3	
	(See Note 2) 2GHz	-	1.2	1.3	
Output VSWR	Frequency 10MHz	-	1.05	1.1	
	1GHz	-	1.2	1.3	
	(See Note 3) 2GHz	-	1.3	1.5	

Switching Characteristics

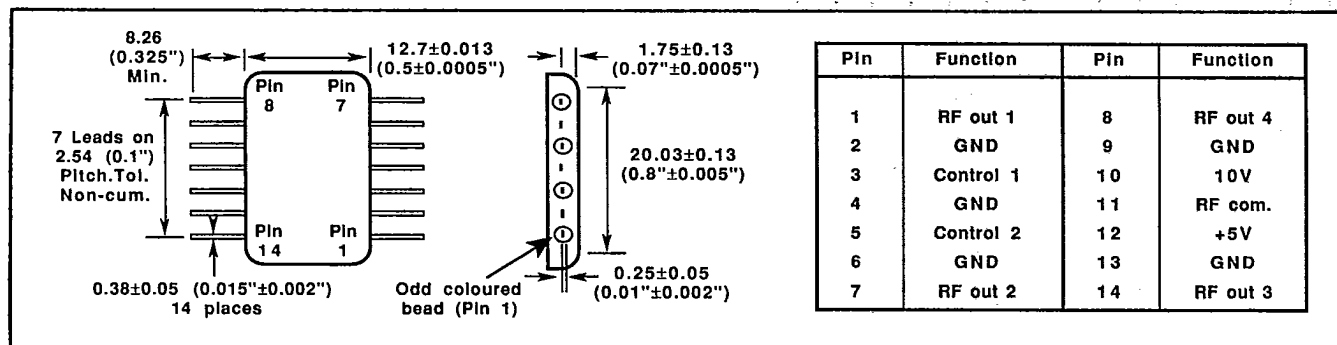
Rise/Fall Time	10% - 90% rf	-	18	20	ns
Delay Time	50% logic to 50% rf	-	100	120	ns
DC Consumption	+5V	-	2	4	mA
	-10V	-	2	4	mA

Notes:

1. See switching Truth Table.
2. Measured in low loss state.
3. Measured in isolated state.
4. Maximum RF input power + 25dBm.
5. Operating temperature range.
-55°C to + 125°C.

Switching Truth Table

Control 1	Control 2	RF1	RF2	RF3	RF4
Low	Low	Low loss	Isolated	Isolated	Isolated
High	Low	Isolated	Low Loss	Isolated	Isolated
Low	High	Isolated	Isolated	Low Loss	Isolated
High	High	Isolated	Isolated	Isolated	Low Loss



Plessey Research & Technology
Caswell, Towcester,
Northamptonshire, NN12 8EQ, UK
Telephone: (0327) 50581 Telex: 31572
Facsimile: (0327) 53410

© The Plessey Company Limited 1990

® Registered Trade Mark of The Plessey Company Limited

North American Office
4350 La Jolla Village Drive, Suite 300,
San Diego, California 92122, USA
Telephone: 619 546 4457
Facsimile: 619 558 9221

Publication No. PRT-0026 Issue 1 1-90

This publication is issued to provide outline information only and (unless specifically agreed to the contrary by the Company in writing) is not to be copied or to form part of any order or contract or to be regarded as a representation to the products or services concerned. Any applications of products shown in this publication are for illustration purposes only and do not give or imply any licences or rights to use the information for any purposes whatsoever. It is the responsibility of any person who wishes to use the application information to obtain any necessary licence for such use. We reserve the right to alter without notice the specification, design, price or conditions of supply of any product or service.