



MAST - MICROWAVE ASSEMBLIES, SYSTEMS & TECHNOLOGIES

100 Davids Drive, Hauppauge, NY 11788  
Tel: (631) 436-7400  
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## Digital Phase Shifter

**MODEL: DPS-0618-360-6-5.6**

### Features

Frequency .....Main Band.7.0-14.0GHz  
Stretch Band 6-18GHz

Insertion Loss:  
Main Band 7.0-14GHz 10.5 dB typ.11dB max.  
Stretch Band 6-18GHz 15.5dB max.

Input/Output VSWR.....2.5:1 max.

Maximum phase shift.....360 degrees

Phase error rms.....3 deg. typ. midband  
6deg max.

Phase shift step size.....5.6 deg. min

Input third order intercept.....40dBm typ. 35dBm  
max.

DC power.....+5VDC

Control input .....6bit TTL



New Product Announcement  
March 8, 2006

MITEQ, Inc. introduces a Digital Phase Shifter covering the frequency range from 7.0 GHz to 14.0 GHz with up to 360 degrees of phase shift and resolution to 5.6 degrees. The 6 bit input control word is TTL compatible and commands switching time to 90% settling within 100 nS. The mid-band phase error for any selected phase shift is less than 6 degrees and the maximum PM-to-AM conversion is 1.5 dB. The Insertion is less than 11 dB, and the input third order intercept point is at least +35 dBm. Options available include an extended band version covering the entire 6.0 GHz to 18.0 GHz range. Please consult the factory for further information.

MITEQ, Inc.  
100 Davids Drive  
Hauppauge, NY 17888  
631-436-7400



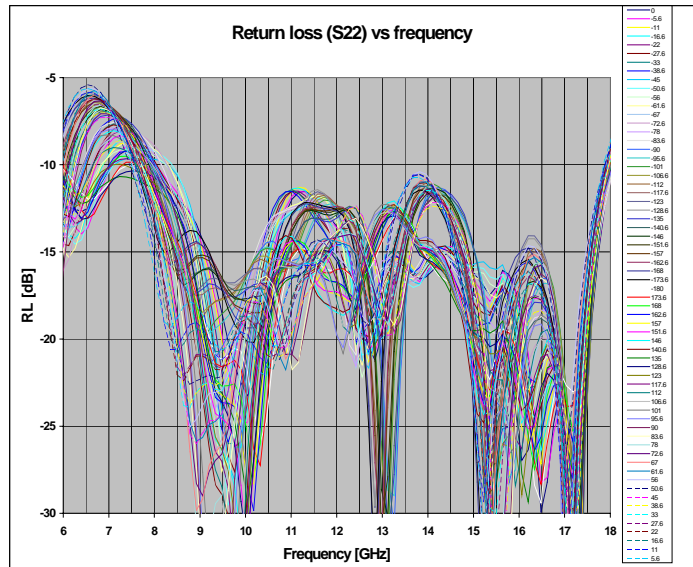
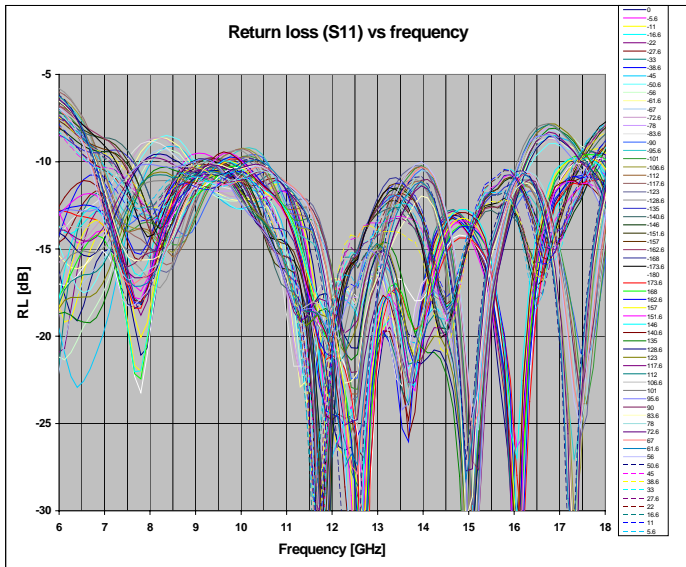
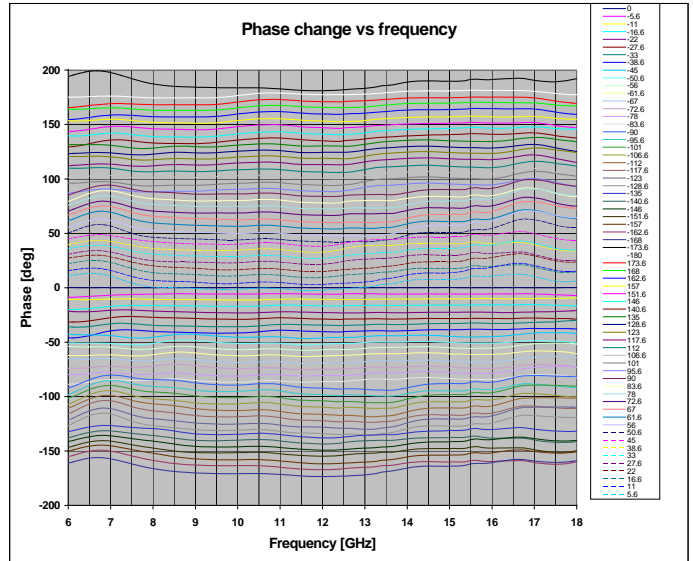
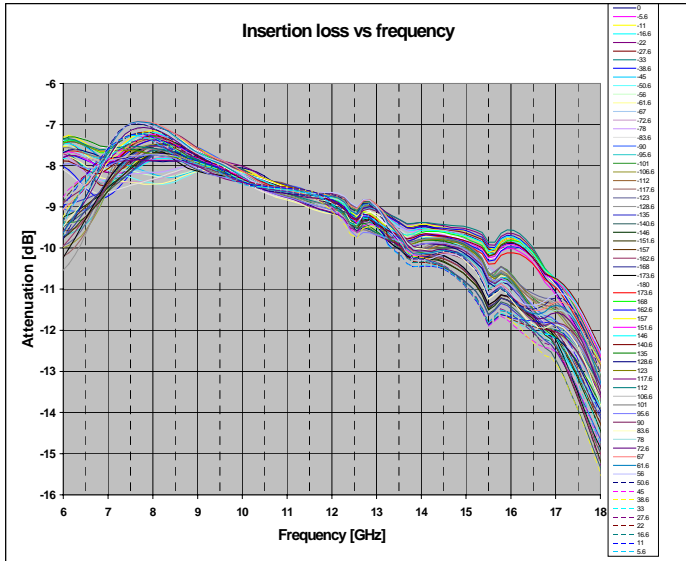
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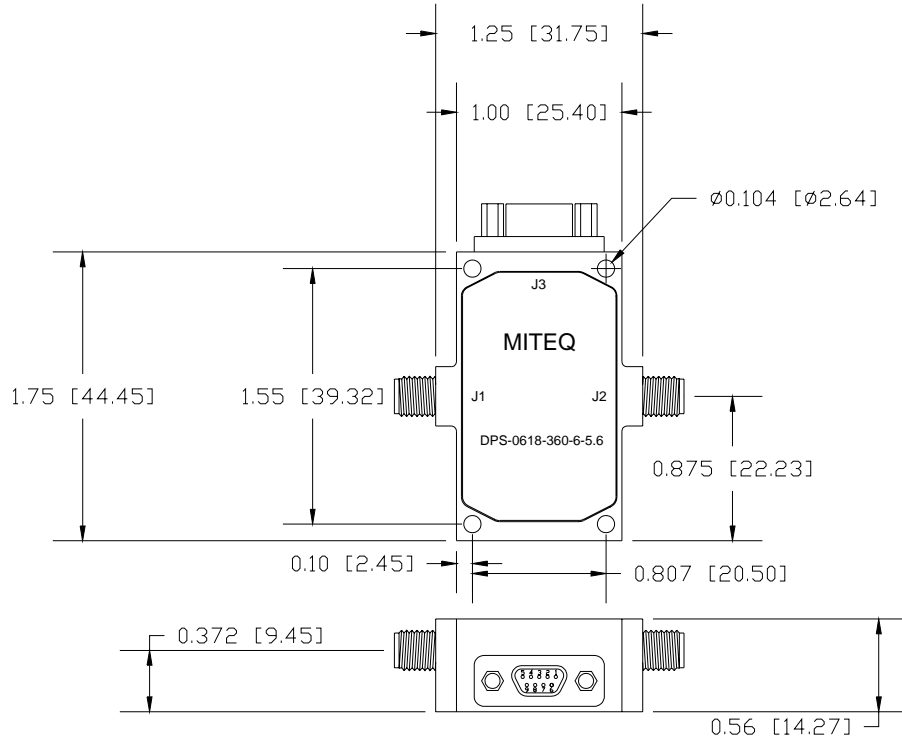
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### Typical Test Data



## Outline Drawing



J3 PIN OUT	
Pin #	Function
1	180 degrees
2	90 degrees
3	45 degrees
4	22.5 degrees
5	11.25 degrees
6	5.6 degrees
7	GND
8	+5VDC
9	NOT USED

All dimensions are in inches [mm]