8.5 to 11.0GHz, 8-Bit Digitally Controlled
0° to 360°, Phase Shifter

TECHNICAL Datasheet
PS-360-8D5G11G-8-LVT-15D

PMI Model Number PS-360-8D5G11G-8-SFF-LVT-15D is an 8.5 to 11.0GHz, 8 Bit Digitally controlled phase shifter with capability for phase shifting from 0° to 360°, with resolution as fine as 1.41°.

Features
- 8.5 to 11.0 GHz
- 13dBm max Operating Input Power
- 360 ° Phase Control Range
- Positive Binary 8-Bit LV TTL
- 500ns Switching Speed
- 2.0:1 maximum VSWR

Applications
- EW Systems • Radars • UAVs & UGVs • Communications • Test Equipment • Laboratories

Electrical Specifications
- Frequency: 8.5 to 11.0GHz
- Input Power (Operating): 13dBm Max.
- Input Power (Survival): 30dBm Max.
- Insertion Loss: 10dB Typical, 12dB Max.
- Phase Control Range: 360 Degrees Min.
- Phase Control Bits: Positive Binary 8 Bit LV TTL
- Phase LSB Step: 1.41 Degrees
- Passband Phase Accuracy: ±9 Degrees Typical, ±12 Degrees Max.
- Phase Flatness: ±12 Degrees Max.
  (Over any 1GHz within the passband)
- PM/AM: ±2dB Max.
- Spurious Signals: -130dBm Max. (No RF input or control updates)
- Switching Speed: 500ns Max.
  (Digital Delay + RF Envelope Rise / Fall Time)
- VSWR In/Out: 2.0:1 Max.
- Connectors (RF): SMA Female
- Connectors (Control): 15 Pin Male Micro d Connector
  Mating Connector Shipped with Unit
- Power Supply: +15V @ 250mA Max. ±5%
  -15V @ 20mA Max. ±5%
- Size: 1.60" X 1.75" X 0.50"
- Finish: Painted Gray
Environmental Ratings

- Temperature: 0°C to +85°C Operating
  -20°C to +85°C Non-Operating
8.5 to 11.0GHz, 8-Bit Digitally Controlled
0° to 360°, Phase Shifter

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MECHANICAL OUTLINE

Switching Speed - Rising Edge

Switching Speed – Falling Edge

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