

1.0 TO 2.0 GHz, 360°, ANALOG PHASE SHIFTER WITH DIGITAL CONTROL



PMI MODEL PS-12-360-QQ1470 IS AN ANALOG PHASE SHIFTER WITH A MINIMUM PHASE SHIFT OF 360° AND A FREQUENCY OF OPERATION OF 1.0 TO 2.0 GHz, OTHER FREQUENCY BANDS AVAILABLE UP TO 18 GHz. THE INSERTION LOSS IS 5.5 dB TYPICAL AND SWITCHING SPEED IS 200ns TYPICAL. THE PHASE SHIFTER USES TTL BINARY CONTROL WITH AN LSB OF 1.41°. THE POWER SUPPLY IS ± 15 VDC AND THE SIZE IS 7.75" X 2.5" X 1.00".

THE PMI MODEL NUMBER PS-12-360-QQ1470 IS AN EXAMPLE OF A FORM FIT AND FUNCTION DESIGN TO REPRODUCE AN OLD DESIGN. A MORE COMPACT DESIGN IS POSSIBLE:

- 1 TO 2 GHz, 3.5" X 2.0" X 0.5", WITH NEW DRIVER BOARD DESIGN
- 2 TO 4 GHz, 3.0" X 2.0" X 0.5", WITH NEW DRIVER BOARD DESIGN
- 4 TO 8 GHz, 3.0" X 2.0" X 0.5", WITH NEW DRIVER BOARD DESIGN
- 8 TO 18 GHz, 2.0" X 3.0" X 0.5", SHORTER RF AND NEW DRIVER BOARD DESIGN MOUNTED IN OTHER DIRECTION

THIS PARTICULAR UNIT OPERATES OVER 1 TO 2 GHz WITH 360° MINIMUM PHASE SHIFT. AN 8 BIT DIGITAL CONTROL SETS THE PHASE WITH 1.4° RESOLUTION AND SWITCHING TIME IS 200 NS. OPTIONS INCLUDE 12 BIT OR ANALOG VOLTAGE CONTROL. MID BAND INSERTION LOSS IS TYPICALLY 4 DB AND WORST CASE INSERTION LOSS OVER THE FULL BAND IS 6 DB. OPERATING TEMPERATURE IS FROM -40° TO 85° C.

A TEST REPORT IS AVAILABLE.

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