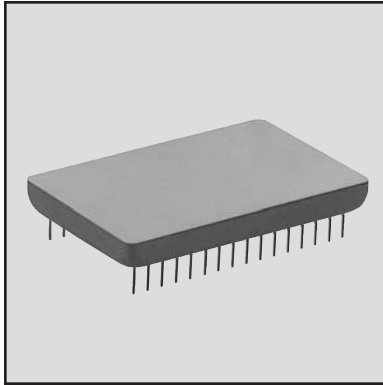




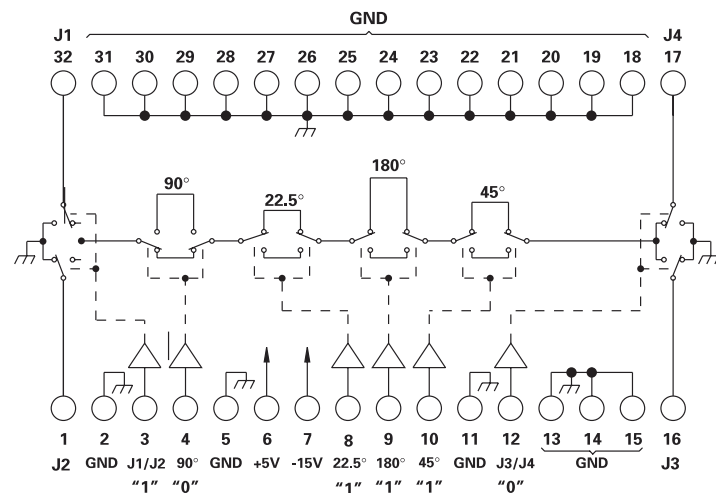
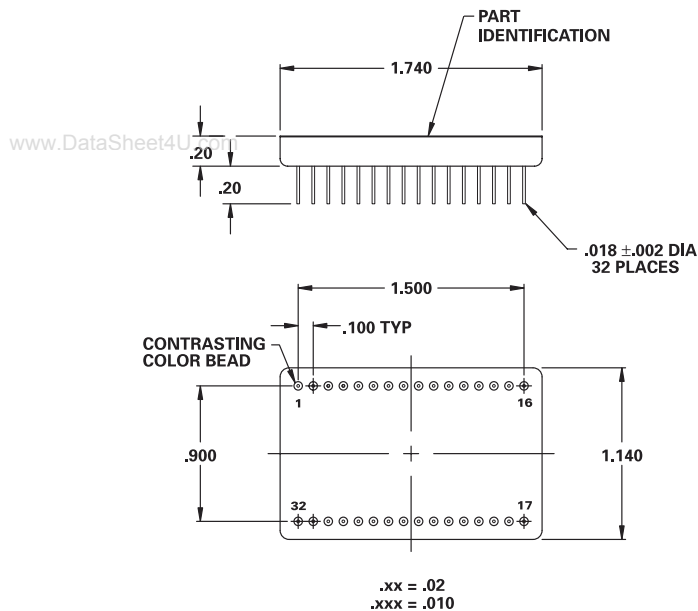
## MODEL NUMBER CPS42126

## Phase Shifter 4 Section

### FEATURES

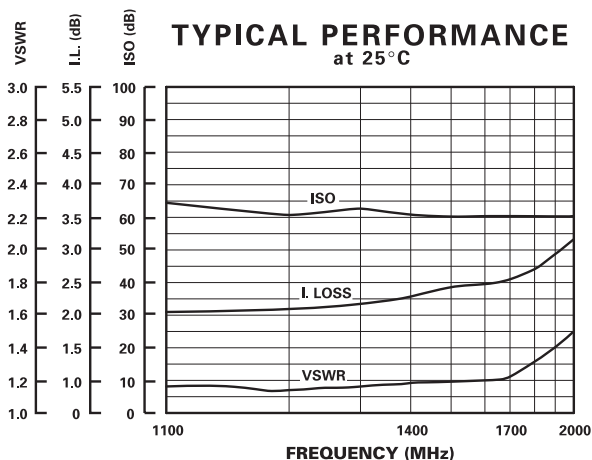
- 1215 - 1400 MHz
- 22.5° LSB, 337.5° Range
- TTL Driver
- +42 dBm 3rd Order IP

### 4 BIT



### GUARANTEED PERFORMANCE

| Parameter                    | Min                                   | Typ                  | Max        | Units                    | Conditions                                                   |
|------------------------------|---------------------------------------|----------------------|------------|--------------------------|--------------------------------------------------------------|
| Operating Frequency          | 1215                                  |                      | 1400       | MHz                      |                                                              |
| DC Current                   |                                       | 34<br>108            | 200<br>200 | mA<br>mA                 | At +5 VDC Supply<br>At -15 VDC Supply                        |
| Control Type                 |                                       | TTL                  |            |                          | 6 Line<br>Logic "0" = Refer Phase<br>Logic "1" = Phase Shift |
| Control Current              | High<br>Low                           | 0<br>0               | ±20<br>±20 | μA<br>μA                 | V <sub>IH</sub> = +2.7V<br>V <sub>IL</sub> = +0.8 V          |
| Insertion Loss               |                                       | 2.4                  | 3.0        | dB                       | At 25° C                                                     |
| Phase:                       | LSB<br>Range<br>Accuracy<br>Linearity | 22.5<br>337.5<br>1.5 | ±6<br>3.0  | DEG<br>DEG<br>DEG<br>DEG | At 1215 MHz                                                  |
| Isolation                    |                                       | 40                   | 60         | dB                       | J1-J4                                                        |
| VSWR                         |                                       | 1.15/1               | 1.5/1      | DEG                      | 1215 - 1400 MHz                                              |
| Impedance                    |                                       |                      | 50         | OHMS                     |                                                              |
| Time Delay                   |                                       | .8                   | 1.0        | 1.2                      | nSEC                                                         |
| Switching Speed              |                                       | .6                   | 3.5        | μSEC                     | 50% TTL to 90% / 10% RF                                      |
| Transition (Rise/Fall) Time  |                                       | .05                  |            | μSEC                     | 10% / 90% or 90% / 10% RF                                    |
| Switching (Video) Transients |                                       | 36                   |            | mV                       | Peak Value                                                   |
| Intercept Points             | 2nd<br>3rd                            | +63<br>+42           |            | dBm<br>dBm               | 2000 / 785 MHz<br>1000 / 785 MHz                             |
| RF Power                     | Operate<br>No Damage                  | +36<br>+30           | +34<br>+30 | dBm<br>dBm               | 0.1 dB Compression                                           |
| Operating Temperature        |                                       | -54                  | +25        | +80                      | °C<br>TA                                                     |



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