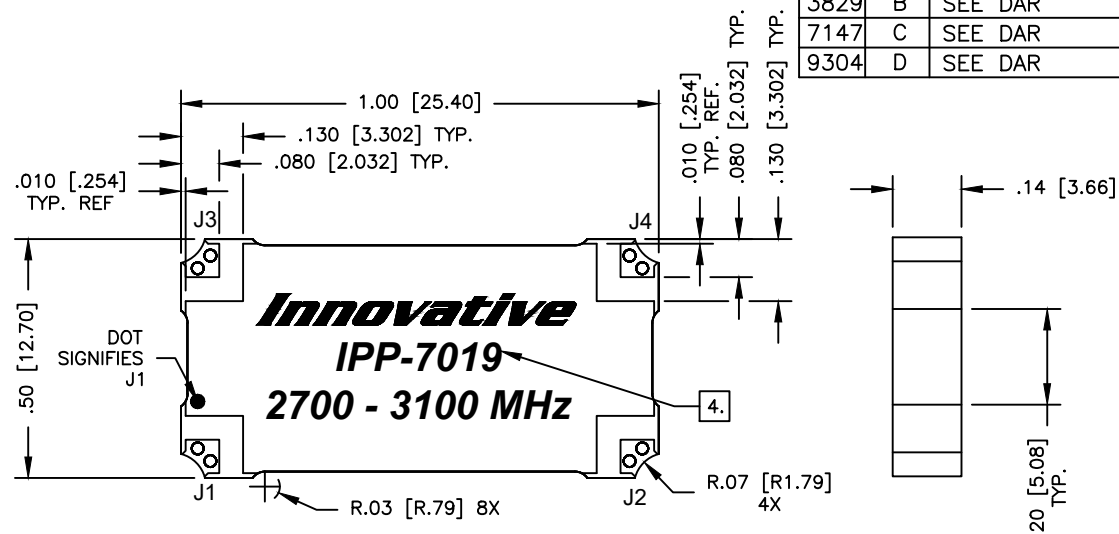


UNAUTHORIZED USE OF THIS  
DRAWING IS STRICTLY PROHIBITED



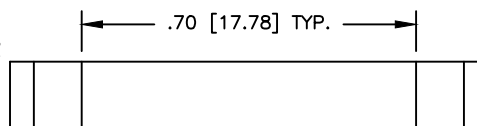
| DAR  | REV | DESCRIPTION | APPVD | DATE |
|------|-----|-------------|-------|------|
| 3829 | B   | SEE DAR     | DG    | 8-12 |
| 7147 | C   | SEE DAR     | DG    | 5-18 |
| 9304 | D   | SEE DAR     | DG    | 5-23 |

#### NOTES:

- SEE SMD COUPLER APPLICATION NOTE FOR FURTHER INFORMATION.
- PARTS WITH RoHS MATTE TIN AND RoHS NICKEL GOLD FINISHES ARE RoHS AND REACH COMPLIANT.
- AVAILABLE IN TAPE AND REEL. SEE SMD COUPLER APPLICATION NOTE FOR FURTHER INFORMATION.
- SEE CHART FOR PART NUMBER AND FINISH.
- DATA AND SPECIFICATIONS APPLY WHEN PART IS MOUNTED IN IPP TEST FIXTURE. TEST FIXTURE CONFIGURATION/FOOTPRINT AVAILABLE UPON REQUEST.

#### ELECTRICAL SPECIFICATIONS

FREQUENCY: 2700 - 3100 MHz.  
 INSERTION LOSS: <0.30 dB  
 VSWR: <1.30:1  
 ISOLATION: >18 dB  
 AMPLITUDE BALANCE:  $\pm 0.30$  dB  
 PHASE BALANCE:  $\pm 5^\circ$   
 POWER: 300 WATT  
 TEMPERATURE:  $-55^\circ\text{C}$  TO  $85^\circ\text{C}$



| FINISH     |             |              |
|------------|-------------|--------------|
| P/N        | TYPE        | COMPLIANCE   |
| IPP-7019   | TIN/LEAD    | ---          |
| IPP-7019RT | MATTE TIN   | RoHS & REACH |
| IPP-7019RG | NICKEL GOLD | RoHS & REACH |

| PORT CONFIGURATION |              |              |              |              |
|--------------------|--------------|--------------|--------------|--------------|
| INPUT              | J1           | J2           | J3           | J4           |
| J1                 | ---          | ISOLATION    | -3dB<0 DEG   | -3dB<-90 DEG |
| J2                 | ISOLATION    | ---          | -3dB<-90 DEG | -3dB<0 DEG   |
| J3                 | -3dB<0 DEG   | -3dB<-90 DEG | ---          | ISOLATION    |
| J4                 | -3dB<-90 DEG | -3dB<0 DEG   | ISOLATION    | ---          |

|                                                                                                 |                  |     |      |              |                                                             |           |  |
|-------------------------------------------------------------------------------------------------|------------------|-----|------|--------------|-------------------------------------------------------------|-----------|--|
| MATERIAL<br>SEE FINISH CHART                                                                    | DWN              | DG  | DATE | 5-08         | <b>Innovative</b> <i>Power Products</i>                     |           |  |
|                                                                                                 | ENG              | TJD | DATE | 5-08         |                                                             |           |  |
|                                                                                                 | MANUF            | TP  | DATE | 5-08         | TITLE<br>OUTLINE<br>SMD COUPLER, 90°, 2700 - 3100 MHz. 300W |           |  |
| TOLERANCE<br>IN [MM]<br>.XX $\pm 0.02$ [.50]<br>.XXX $\pm 0.010$ [.254]<br>ANG. $\pm 1/2^\circ$ | CAGE CODE: 437R2 |     |      | SHEET 1 OF 1 |                                                             | SCALE 4:1 |  |
|                                                                                                 | SIZE             | B   | P/N  | IPP-7019*    |                                                             | REV. D    |  |