

10dB L-band Proximity Coupler



10dB L-band proximity coupler with DC blocks on all RF ports.

This component is available with the following RF connector options: 50 Ω SMA, N-type, BNC and 75 Ω BNC or F-type.

Summary table for RF performance over L-band operation, 850 MHz to 2150 MHz

| Model Numbers | RF Ports | Thru Path Insertion Loss (dB) | | Coupling Factor Typical (dB) | Return Loss (dB) | | Directivity (dB) |
|---------------------|------------|-------------------------------|-----|------------------------------|------------------|-----|------------------|
| | | Typical | Max | | Typical | Min | |
| COUP10L1P-4303-S5S5 | 50Ω SMA | 1.0 | 1.5 | 10± 1 | 20 | 15 | n/a |
| COUP10L1P-4303-N5N5 | 50Ω N-type | 1.0 | 1.5 | 10 ± 1 | 18 | 14 | n/a |
| COUP10L1P-4303-B5B5 | 50Ω BNC | 1.0 | 1.5 | 10 ± 1 | 18 | 14 | n/a |
| COUP10L1P-4303-B7B7 | 75Ω BNC | 1.0 | 1.5 | 10 ± 1 | 16 | 12 | n/a |
| COUP10L1P-4303-F7F7 | 75Ω F-type | 1.0 | 1.5 | 10 ± 1 | 15 | 10 | n/a |

Maximum acceptable operating parameters for reliable and safe operation

| Parameter | Value | Comment |
|-----------------------|----------------|--------------------|
| Input RF power | +37 dBm (5W) | Max total RF power |
| DC Voltage | 50V | Any RF port |
| Operating temperature | 0 to 45 C | Indoor use only |
| Storage Temperature | -20 C to +75 C | |
| Humidity | 85% | Non-condensing |

! Operation beyond these limits may cause instantaneous and permanent damage.

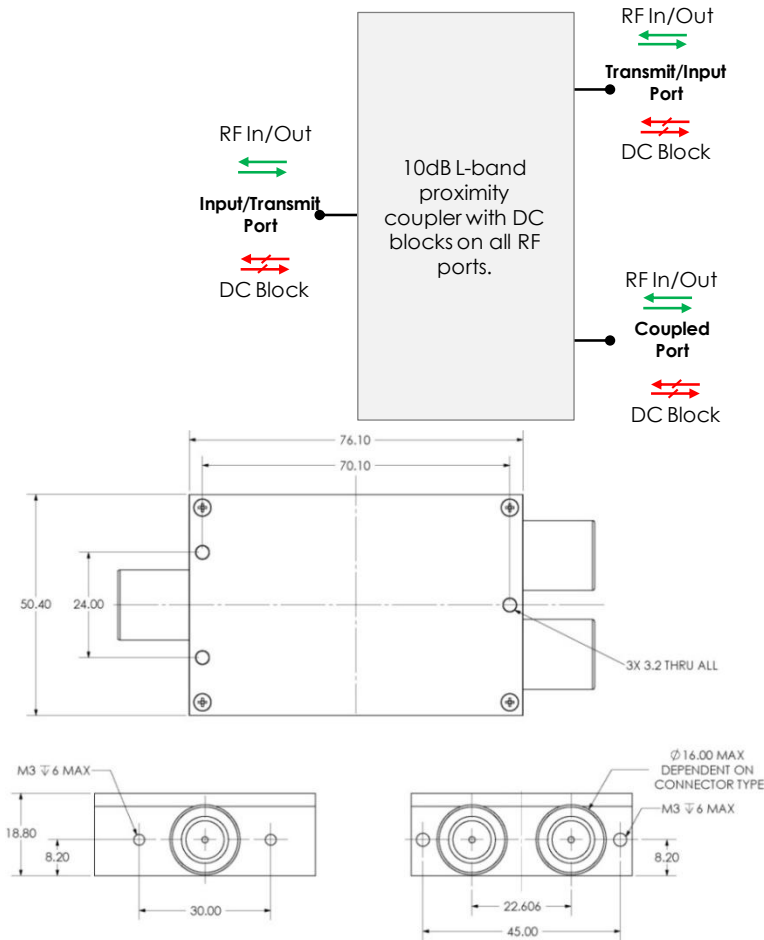


COUP10L1P-4303

10 dB L-band Proximity Coupler



Vector diagram & physical dimensions



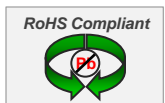
Feature set for alternative L band couplers and DC blocks

| Model Number | DC Pass/Block | Other features |
|------------------|--------------------------------------------------|----------------------------|
| COUP20-L1P-4301 | DC block on ALL ports | 20dB proximity coupler |
| COUP10-L1P-4303 | DC block on ALL ports | 10dB proximity coupler |
| COUP20-L1P-4304 | Thru port - DC pass Coupled port - DC blocked | 20dB proximity coupler |
| COUP10-L1P-4305 | Thru port - DC pass Coupled port - DC blocked | 10dB proximity coupler |
| COUP20-L1P-4306 | Thru port - DC pass Coupled port - DC blocked | 20dB directional coupler |
| COUP 10 L1P-4307 | Thru port - DC pass Coupled port - DC blocked | 10dB directional coupler |
| DCBLK-L1-4302 | DC block with L-band and 10MHz pass | 10 MHz to 2500MHz DC block |
| DCBLK-L1-4308 | DC & 10 MHz block | |



ETL Systems Ltd, Coldwell Radio Station, Madley, Hereford, HR2 9NE, England

ETL Systems design, develop and manufacture specialist equipment for satellite ground stations. For a full description of the ETL product range, please see our website at www.etlsystems.com. This product range provides the basis for meeting your specific demands.



Tel +44 (0)1981 259020
Fax +44 (0)1981 259021
info@etlsystems.com