



| PRODUCT FAMILY | DESCRIPTION |
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|---------------------------|----------------------------------------|
| INDOOR RF PASSIVES | SEMI ISOLATED OUTLET: TSO-303FU |
|---------------------------|----------------------------------------|

| | FEATURES |
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- >> Frequency range up to 1218 MHz
- >> Class A screening effectiveness
- >> Outstanding RF performance
- >> All ports featuring F-female connectors

SPECIFICATIONS

INSERTION LOSS (dB, Max.) - IN to OUTPUTS

| Frequency (MHz) | Typ. | |
|-----------------|-----------|-----------|
| 5 - 10 | 3.3 / 6.7 | 3.8 / 7.2 |
| 10 - 65 | 3.3 / 6.5 | 3.8 / 7.0 |
| 65 - 470 | 3.3 / 6.5 | 3.8 / 7.0 |
| 470 - 862 | 3.5 / 7.0 | 4.0 / 7.5 |
| 862 - 1006 | 3.7 / 7.5 | 4.2 / 8.0 |
| 1006 - 1218 | 3.9 / 7.9 | 4.5 / 8.5 |

RETURN LOSS (dB, Min.) - ALL PORTS

| | |
|-----------|---------------------|
| 5 - 10 | 22.0 |
| 10 - 1218 | 22.0 ⁽¹⁾ |

ISOLATION (dB, Min.) - OUT to OUT

| | |
|-------------|------|
| 5 - 10 | 30.0 |
| 10 - 65 | 35.0 |
| 65 - 470 | 28.0 |
| 470 - 862 | 26.0 |
| 862 - 1006 | 25.0 |
| 1006 - 1218 | 23.0 |

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GENERAL SPECIFICATIONS

| | |
|----------------------------------------------------------------------|--------------------------------------------------------------|
| Frequency range | 5 – 1218 MHz |
| Nominal impedance | 75 Ohm |
| Output connectors | F female |
| Dimensions | 69 x 64,5 x 35 mm |
| Weight | 0,097 kg |
| Electromagnetic compatibility ⁽²⁾ (dB, Min.) | |
| 5 - 300 | 85.0 |
| 300 - 470 | 80.0 |
| 470 - 950 | 75.0 |
| 950 - 1218 | 55.0 |
| Intermodulation ⁽³⁾ (2f1, f1 + f2, 2f2) (dBc, Min.) | 122.0 ^(a) 115.0 ^(b) |
| Safety Isolation | Inner conductor input to inner conductor output |
| 2120 VDC | ≤ 0.7 mA, ≥ 1 minute ⁽⁴⁾ |
| 230 VAC RMS, 50/60 Hz | ≤ 8.0 mA RMS ⁽⁴⁾ |
| Surge immunity | 1 kV, 1.2/50µS ⁽⁵⁾ |
| Housing (material/plating) | Zinc die-cast / nickel plated Steel back lid / tin plated |
| Connectors (material/plating) | |
| Spring of F female | Phosphor bronze/Nickel |
| Product approval | CE |
| EMC compatibility | EN 50083-2 |

This splitter outlet has been designed to fit with the typical frames and covers. Combining the high screening with the easy frontal cable connection results in reliable and swift installation. The Outlet features wideband ports up to 1218 MHz while maintaining a very low port losses and high Isolation performance. The output ports are all of the F-type with outstanding inner spring resilience to ensure good contact pressure.

Notes

- (1) * F > 40 MHz -1.5 dB/oct, with a minimum of 14.5 dB
- (2) Class A, according to IEC 50083-2
- (3) Two carriers (60 & 65 MHz), applied to (each)output port, @120dBµV
(a) No surge
(b) Measured after 10 pulses 25VDC (1,2/500µS) applied to each port
- (4) According to IEC-60728-11 2007, Safety
- (5) Surge voltage according to IEC 61000-4-5, EMC (class 2, level 2) applied between the inner and outer conductor of each port

ORDERING INFORMATION

TSO-303FU 3-Way Unbalanced Splitter, 5-1218MHz , System Outlet, Terminated