



PRODUCT FAMILY	DESCRIPTION
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INDOOR RF PASSIVES	SEMI ISOLATED OUTLET: TSO-303F
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	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	5.0	5.5
10 - 65	5.0	5.5
65 - 470	5.6	6.1
470 - 862	6.0	6.5
862 - 1006	6.3	6.8
1006 - 1218	6.7	7.3

RETURN LOSS (dB, Min.) - ALL PORTS

5 - 10	22.0
10 - 1218	22.0 ⁽¹⁾

ISOLATION (dB, Min.) - OUT to OUT

5 - 10	28.0
10 - 65	32.0
65 - 470	28.0
470 - 862	24.0
862 - 1006	24.0
1006 - 1218	22.0

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-303F 3-Way Balanced Splitter, 5-1218MHz , System Outlet, Terminated