OSVCX-33, OSVCX-33-TP, OSVCX-33-P, OSVCX-33-PTP – vertically connected 3-way unbalanced outdoor splitters

- **3-way outdoor splitters enabling vertical connections**
- **Power insertion port**
- **Optional test point lid**
- **Excellent RF and hum modulation performance**
- **Designed for extreme environmental conditions**

Splitter without Test Points

Overview

The OSVCX series of 1.2GHz outdoor splitters includes 2-way, 3-way balanced, 3-way unbalanced and 4-way outdoor splitters.

The splitters are offered with the option of a test point lid. The test point lid allows a test probe to be used to check incoming/outgoing RF/power without removing the lid or disconnecting cables.

Providing surge protection on all ports, and excellent RF and hum modulation performance, the splitters feature 5/8”-24 NEF-female ports for input and output cable connection on the housing.

The splitters are surface mountable. To aid installation in street cabinets, all ports are on the bottom edge of the unit, pointing in the same direction.

Tested under extreme environmental conditions, the splitters are designed to operate near salt water, along busy highways and in very hot conditions.

Technetix Group Limited
e: sales@technetix.com w: www.technetix.com

technetix

OSVCX-33 / OSVCX-33-TP / OSVCX-33-P / OSVCX-33-PTP

Specifications

		MHz	OSVCX-33 / OSVCX-33-TP / OSVCX-33-P / OSVCX-33-PTP		
Insertion loss (dB)			**Min**	**Typ**	**Max**
	Output 1, 2	10 - 20		7.5	8
		20 - 250		7.2	7.5
		250 - 550		7	7.5
		550 - 750		7.2	8
		750 - 862		7.4	8.5
		862 - 1000		7.6	8.5
		1000 - 1218		8.7	9.5
	Output 3	10 - 20		4	4.6
		20 - 250		4	4.3
		250 - 550		3.8	4.3
		550 - 750		4	4.6
		750 - 862		4.2	5
		862 - 1000		4.5	5
		1000 - 1218		4.5	5.4
Return loss (dB)	All ports	10 - 1218	16	20	
Isolation (dB)	All outputs	10 - 20	22	25	
		20 - 150	22	28	
		150 - 550	20	27	
		550 - 750	20	27	
		750 - 1000	22	24	
		1000 - 1218	20	22	
Screening effectiveness (dB)[3]		10-300	>85		
		300-470	>80		
		470-950	>75		
		950-1218	>55		
Power passing (Amp AC/DC)		10 (15 on power insertion port)			
Fuse rating (Amp AC/DC)		10 (15 on power insertion port)			
Hum modulation (dB, typ)[1]	All ports	-70			
Surge class conformance[2]	All ports	Combination wave 1.2/50 µs level 2 (1.0 kV)			
Material	Housing	Cast aluminium, liquid paint over Alocrom 1000			
	Connnector plating	Tin-Nickel			
Impedance (ohm)		75			
Dimensions (mm)	L x H x D	175 x 102 x 45 (62 with test point lid)			
Equipment approval		CE			

Splitter with Test Points

Remarks

	Measurements taken at room temperature
	All measurements taken without test probes connected and with blanking plugs fitted (when fitted with test port lid)
1	Average @ 10A Power Passing, 20MHz stepping from 10MHz to 1GHz and 50MHz stepping from 1GHz to 1.2GHz
2	1kV combination wave, 1.2µs rise time, 50µs fall time on all ports.
3	According to BS EN 50083-2:2012

Ordering information

Item Name	Description	Article number
OSVCX-33	3-way unbalanced splitter	19006752
OSVCX-33-TP	3-way unbalanced splitter with test point lid	19007160
OSVCX-33-P	3-way unbalanced splitter with power insertion port	19006753
OSVCX-33-PTP	3-way unbalanced with power insertion port and test point lid	19007161

Technetix Group Limited
e: sales@technetix.com w: www.technetix.com

technetix

OSVCX-33 / OSVCX-33-TP / OSVCX-33-P / OSVCX-33-PTP

Mechanical & environmental specifications

Performance parameter		Details
Connectors	Input and Output	Female (5/8"-24NEF)
Water immersion	Tighten torque on connectors	2.26 Nm (< 20 In-Lb)
(IP68)	Water head	1m (3.28 ft)
	Duration	168 hrs
	Observation: no water leak	No electrical degradation after dry
Temperature cycling with humidity	Temperature	+4°C to +60°C (+39.2°F to +140°F)
(EN 60068-2-30:2005)	Extreme temperature duration	3 hrs
	Transient	3 hrs
	Humidity	95% RH
	Number of cycles	20
	Observation: no water leakage	No electrical degradation after dry
High temperature cycling	Temperature	+60°C (+140°F)
(EN 60068-2-2:2007)	Duration	48 hrs
	Observation: no crack or damage	No electrical degradation after dry
Drop test	75cm (29.5 in) high onto concrete floor or metal plate surface	Corner, edge and port
(EN 60068-2-32:1993,	Number of drop for each impact point	1
IEC 68-2-32:1975)	Observation: no crack on metal	No electrical performance degradation
Salt fog	Tighten torque on connectors	2.26 Nm (< 20 In-Lb)
(MSTM-B-117)	Temperature	+35°C (+95°F)
	Salt percentage and acidity	5% and pH7
	Duration	672 hrs
	Number of cycles	Continues
	Observation: no electrical performance degradation	No metal corrosion or salt incursion
WEEE (2002/96/EC)	Complete product	Marked with wheelie bin logo
RoHS (2002/95/EC)	Complete product	Complies to RoHS
Temperature	Operating temperature	-40°C to +60°C (-40°F to +140°F)

Technetix Group Limited
e: sales@technetix.com w: www.technetix.com