OTKW 2-way 1.2 GHz tap

- **2 way skyline style widebody 1.2GHz tap**
- **RF and power bypass capability**
- **Compatible with existing Skyline taps**
- **Robust outdoor powder coated housing**
- **Available in faceplate only replacements**
- **Surge immunity meets IEEE C62.41**
- **Salt spray compliance on housing - 672 hours**
- **Hum and noise according to ANSI/SCTE 16 2012**

Overview

The Technetix OTKW series of Skyline style outdoor taps now offers a complete line in outdoor tap passives. All OTKW 2-way outdoor taps are mechanically identical in shape with tap values between 10 and 26 dB. All taps feature sealed female F-ports for drop cable connection on the faceplate and 5/8"-24 NEF-female ports for input and output cable connection on the housing.

The housing has the option of an AC-RF bypass switch, allowing faceplates to be changed without loss of power or RF through the tap housing.The faceplates are compatible with other Skyline hardware. Taps may be strand mounted through the clamp at the back of the housing, or can be surface mounted with an optional bracket.

Also, both the housing and connector design and material selection combine to provide first class leading corrosion resistance.

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Specifications

		MHz	2-4	2-8	2-11	2-14	2-17	2-20	2-23	2-26	2-29	2-32	2-35
			Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
Insertion loss (dB)	In to tap	10 - 65	5.0	9.0	12	15	18	21	24	27	30	33	36
		65 - 860	5.0	9.0	12	15	18	21	24	27	30	33	36
		86 - 1218	5.5	9.5	12.5	15.5	18.5	21.5	24.5	27.5	30.5	33.5	36.5
	In to out	10 - 65		3.6	2.0	1.5	1.1	0.8	0.8	0.7	0.7	0.7	0.7
		65 - 300		4.0	2.0	1.3	1.2	0.9	0.9	0.9	0.8	0.8	0.8
		300 - 550		4.7	2.5	1.9	1.7	1.3	1.3	1.3	1.2	1.2	1.2
		550 - 750		4.7	2.7	2.1	1.8	1.5	1.5	1.4	1.3	1.3	1.3
		750 - 862		5.0	3.0	2.3	2.0	1.8	1.7	1.7	1.4	1.4	1.4
		862 -1000		5.1	3.1	2.4	2.1	1.9	1.8	1.8	1.5	1.5	1.5
		1000 - 1218		5.3	3.3	2.6	2.3	2.1	2.0	2.0	1.7	1.7	1.7
			Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Return loss	All ports	10 - 15	18.0	18.0	16.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
		15 - 47	18.0	18.0	16.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
		47 - 950[5]	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
		950 - 1218	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Directivity	Out to tap	10 - 15		20.0	22.0	25.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0
		15 - 65		25.0	26.0	30.0	32.0	33.5	35.0	36.5	38.0	39.5	41.0
		65 - 860		23.0	25.0	27.0	30.0	31.5	33.0	34.5	36.0	37.5	39.0
		860 - 1218		20.0	22.0	22.0	25.0	26.0	27.0	29.0	30.0	33.0	35.0
Isolation	Tap to tap	10 - 15	20.0	20.0	20.0	20.0	22.0	22.0	22.0	23.0	23.0	24.0	24.0
		15 - 65	25.0	22.0	22.0	22.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
		65 - 860[6]	25.0	22.0	22.0	24.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
		860 - 1218	22.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Screening effectiveness (dB)		10 - 30[3]	2.5 mΩ/m										
		30 - 300[4]	95.0										
		300 - 470[4]	90.0										
		470 - 950[4]	85.0										
		950 - 1218[4]	80.0										
Frequency range (MHz)	All ports	10 - 1218											
Connectors	I/P, O/P	5/8											
	TAP	F-female											
Temperature range (°C)			Min					Max					
		Operating	-40					+60					
		Storage	-40					+60					
		Spec	+20					+65					
Power passing (Amps AC/DC, max)		12											
Hum modulation (dB, typ)[2]			Min										
		5 - 10	65.0										
		10 - 860	70.0										
		860 - 1218	65.0										
Surge (kV)[1]		2											
Impedance (Ω)		75											
MTBF (hrs)		100000											
Equipment approval		CE											

Remarks

1	IEEE-C62.41, combination wave, category B1 (rise time 1,2 µS / fall time 50 µS). No degradation allowed
2	Measured at 7A (test setup in accordance with ANSI-SCTE-16)
3	IEC 62153-7 § 5.5
4	IEC 62153-7 § 5.5
5	F > 40 MHz -1.5dB/oct
6	F > 40 MHz -1.5dB/oct no greater than -20dB

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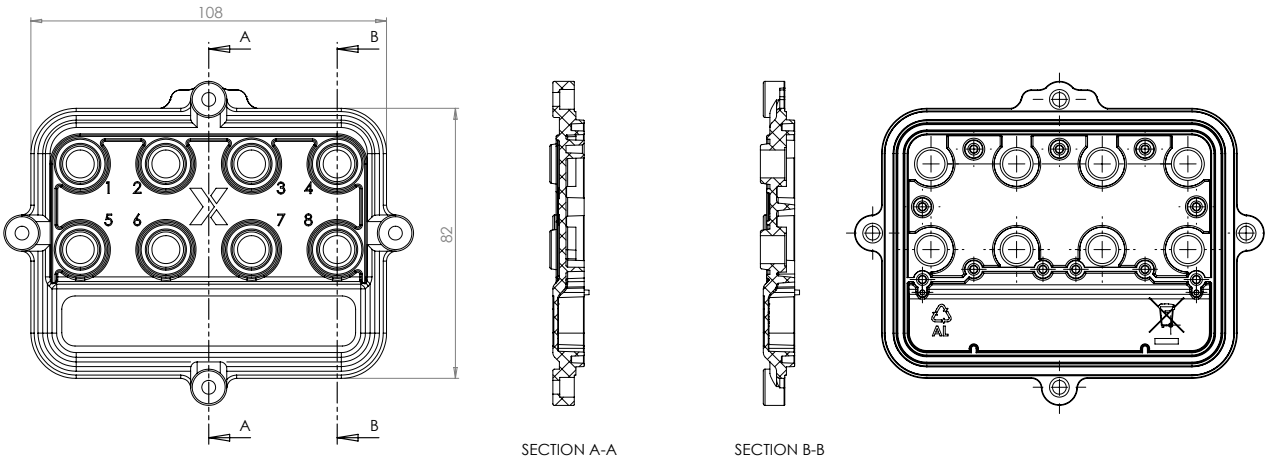
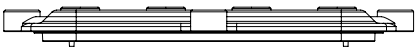
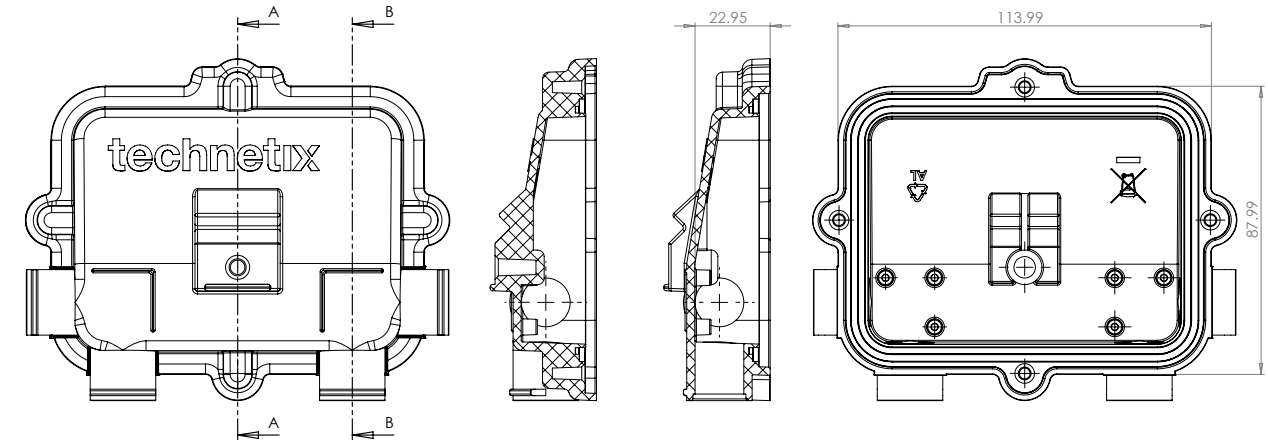
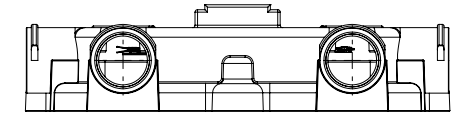
Engineering images









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Mechanical & environmental specifications

Test	Conditions		Requirements
Air Leakage	Medium	Water	No air leakage
	Duration	1 minute	
	Pressure	1.5 kg/cm^2	
Physical Drop	Height	3ft/91 cm	No physical damage
	Surface	Hard (concrete)	No electrical damage
	No. of drops	5	
	Impact point	5	
Salt Fog	Duration	672 hours (28 days)	According to BS EN 60068-2-52 1996
Temp Cycling with Humidity	Temperature	-40°F till 140°F -40°C till 60°C	No electrical damage
	Duration	3hrs extemes - 3hrs transition	Measured when dry
	Humidity	95% RH	
Temp Cycling with Humidity	No. of cycles	14 cycles - 12hrs	
UV Degradation	Exposure	QUV Weatherometer	According to Bellcore GR-2873
	Radiation type	UVB - 313 (ASTM G154)	For surface degradation
	Cycle	4hrs UV - 4hrs condensation	
	Duration	100hrs	
Water Immersion	Depth	47.24 inches/1.2 meters	No water ingress
	Meters duration	168hrs	
Vibration	Frequency	10-55 Hz	No electrical damage
	Position	Vertical	
	Duration	20 minutes	
	Average position	Horizontal X-Y	
	Duration	20 minutes	
Ozone			According to ASTM D1171
Mechanical	SCTE 01 2006	Specification for F-port, female, outdoor	
	Bellcore GR-2873	Vibration and impact	
Environmental	ASTM B117	Standard practice for operating salt fog spray apparatus	
	ASTM B827	Standard practice for conduction mixed flowing gas environmental test	
	Bellcore GR-2873	Temperature cycling with humidity	
	Bellcore GR-2873	Water immersion	
	Bellcore GR-2873	Salt fog exposure	
	Bellcore GR-2873	Environmental pollutants	
	Bellcore GR-2873	Chemical resistance	
Electrical	IEEE C62.41-1991	Recomended practice on surge voltages on low-voltage AC power circuits	
	SCTE 48-1 2007	Surge withstand test procedure	
Ingress	SCTE 81 2007	Test method for measuring shielding effectiveness using a GTEM cell	
Transmission	SCTE 16 2001R2007	Test procedure for hum modulation	

	Port	Range	Min	Typical	Max	Units
Connectors	In			5/8"-24 NEF female		
	Tap			F-female		
Temperature Range	Operating		-40		+60	°C
			-40		+140	°F
	Storage		-60		+70	°C
			-76		+158	°F
Weight	Tap			478		Gram
	Faceplate			195		
Material	F-connector			NiSn plated		
	F-spring			Silver plated		
Color	Housing			Gray		

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