

138-960MHz RF Tappers for Public Safety

ST-xxN-PS

SYM's RF Tapper Series for VHF/UHF/700/800/900MHz Public Safety applications provides a reliable solution for unevenly splitting high-power signals at a fixed tap ratios – from 2:1 (3dB) up to 100:1 (20dB). This enables continuous signal monitoring without network disruption, ensuring minimal reflection and signal loss—critical for maintaining seamless communication in emergency and public safety operations.

- 138-960MHz (VHF/UHF/700/800/900MHz) for Public Safety
- Low Insertion Loss & VSWR
- -153dBc Low PIM
- 300W Power Rating
- IP67 Outdoor Rated
- N-Female Connectors
- ROHS Compliant

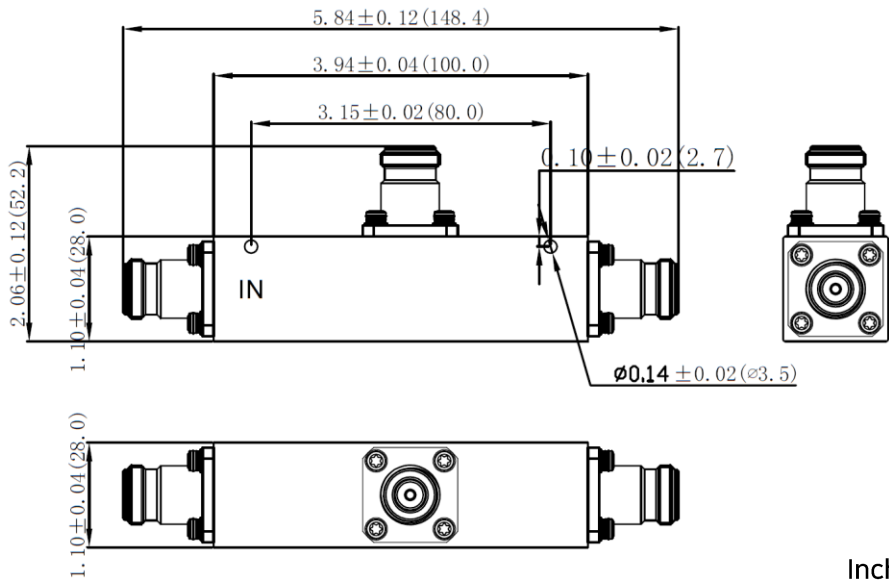


Parameter		Specifications								
Model		ST-03N-PS	ST-05N-PS	ST-06N-PS	ST-08N-PS	ST-09N-PS	ST-10N-PS	ST-13N-PS	ST-15N-PS	ST-20N-PS
Power Ratio		2:1 /3dB	3:1/ 4.8dB	4:1 /6dB	6:1 /8dB	7:1 /8.5dB	10:1 /10dB	20:1 /13dB	30:1 /15dB	100:1 /20dB
Main Insertion Loss [dB]		-2.0 max.	-1.5 max.	-1.2 max.	-0.9 max.	-0.8 max.	-0.6 max.	-0.5 max.	-0.3 max.	-0.2 max.
Branch Insertion Loss [dB]		-4.8	-6.1	-7.0	-8.5	-9.0	-10.4	-13.2	-15.1	-20.1
Branch Coupling Variance Table	138-200MHz	-6.4±0.7	-7.8±0.7	-8.3±0.7	-9.4±0.7	-10.5±0.7	-11.4±0.8	-13.5±0.8	-14.7±0.8	-19.6±1.0
	200-380MHz	-5.8±0.6	-6.8±0.6	-7.8±0.6	-8.8±0.6	-9.9±0.6	-10.7±0.7	-13.1±0.7	-14.4±0.8	-19.5±1.0
	380-698MHz	-5.1±0.6	-6.1±0.6	-7.3±0.6	-8.5±0.6	-9.5±0.6	-10.4±0.6	-12.8±0.6	-14.2±0.7	-19.4±0.7
	698-960MHz	-4.8±0.5	-6.1±0.5	-7.0±0.5	-8.2±0.5	-9.3±0.5	-10.4±0.5	-12.8±0.5	-14.5±0.5	-19.4±0.6
Input Port VSWR	138-380MHz	1.4:1	1.38:1	1.3:1	1.23:1	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1
	380-960MHz	1.38:1	1.35:1	1.3:1	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1
PIM [dBc]		-153 @ 700/800MHz Uplink								
Power Rating [W]		300								
IP Rating		IP67								
Operating Temp. [°F]		-31 to +167								
RF Connector		N Female								
Size (WxHxD)		3.94" x 1.1" x 1.1"								
Weight [lb]		0.7								

* Specifications are subject to change without prior notification.

Rev.1

Mechanical Drawing



Inch [mm]