

Transmit Antenna Line Couplers

130-180MHz, 380-550MHz and 746-960MHz
SPxxx-y440-zFF1RU



These non-intrusive in-line 4-port directional couplers are used for sampling measurement of forward and reflected power towards the transmit antenna to be fed into Site Vantage®.

These couplers have a low insertion loss and each is capable of handling up to 750Watts of RF power. The excellent PIM and PIP ratings of the couplers are maintained using 7/16 DIN (F) or 4.3-10(F) connectors on the input "From Combiner" and output "To Antenna" ports, with N (F) termination connectors used on the "FWD" and "RFL" coupling ports.



Features:

- Suitable for sampling and measurement of Tx forward and reflected power
- PIM and PIP rated
- Compact design
- 1RU 19" rack mounting
- Low VSWR
- Minimal insertion loss

Technical Specifications

Model Number	SPxxx-y440-zFF1RU		
Model Number Frequency Derivative (SPxxx)	SP1318-2440-zFF1RU	SP3855-4440-zFF1RU	SP7496-4440-zFF1RU
Frequency Range MHz	130-180	380-550	746-960
Insertion Loss (max) dB	0.05dB		
Input and Output Return Loss (min) dB	20		
VSWR (max)	1:1.2		
Coupling Loss dB	40dB (+/- 0.7)		
Input Power (max) W	750		
Peak Instantaneous Power (max) kW	30 (+74.77dBm)		
PIM 3rd OIP - 2 x 43 dBm carriers (min) dBc	-150dBc		
Connectors - "To Antenna" / "From Combiner"	SPxxx-y440-DFF1RU	7/16 DIN(f)	
	SPxxx-y440-43FF1RU	4.3-10(f)	
Connectors - FWD and RFL coupling ports	N(f)		
Mounting	1RU 19" rack mounting		
Net Dimensions mm / in	H	43.60 / 1.71	
	W	483 / 19	
	D	77 / 3	135 / 5.31
Operational temperature range	-30° to +60° / -22° to 140°		
Compliance	RoHS		

Ordering Information

Model Number	SPxxx-y440-zFF1RU
Frequency	
SP1318-2440-zFF1RU	130-180MHz
SP3855-4440-zFF1RU	380-550MHz
SP7496-4440-zFF1RU	746-960MHz
RF Connectors	
SPxxx-y440-DFF1RU	2 x DIN(f) and 2 x N(f)
SPxxx-y440-43FF1RU	2 x 4.3-10(f) and 2 x N(f)