

Table 2-5. SCS 800/900 MHz SMR System Nominal Specifications, continued

PARAMETER	SPECIFICATION	REMARKS
Composite RF Output power of both bands (see Note 1 at end of table)	38.1 dBm (6.5 Watts) at remote antenna port with -40 dBm input	10 Watts at LPA output
Configurable RF Output Range Step size	31 dB at remote unit $1 \pm 0.5 \text{ dB} \pm 10\%$ of attenuation monotonic	
Transmit path insertion loss	2.5 dB maximum	
RF Reverse Path - 800/900 MHz System bandwidth	18 MHz 5 MHz	800 MHz receive 900 MHz receive
Frequency range	806–824 MHz 896–901 MHz	
Propagation delay	< 8 μs (typical)	Excludes fiber delay
Configurable propagation delay Range Step size	Up to 63 μs $0.1 \mu\text{s} \pm 100 \text{ ns}$	Plus standard propagation delay
Gain of reverse path Overall gain Gain variation	$30 \pm 2 \text{ dB}$ at band center at room temperature 3 dB over temperature	
Gain flatness Band flatness Channel flatness	$\pm 2.0 \text{ dB}$ across frequency range $\pm 1.5 \text{ dB}$ variation across any 1.25 MHz channel	
Out-of-band rejection	-40 dB bandwidth at $\leq 30 \text{ MHz}$	
Spurious (in-band self generated)	-110 dBm referred to input	
Intermodulation	-62 dBc	two tones @ -50 dBm
System noise figure	9 dB at mid-band	
Configurable RF output Range Step size	31 dB $1 \pm 0.5 \text{ dB} \pm 10\%$ of attenuation monotonic	
Blocking dynamic range	70 dB	
Level limiting ALC threshold	-40 dBm $\pm 3 \text{ dB}$ instantaneous	
Level limiting ALC range	27 dB	

Note 1: Per Industry Canada Section 5.3 - The rated output power of this equipment is for single carrier operation. For situations where multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output signal is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.