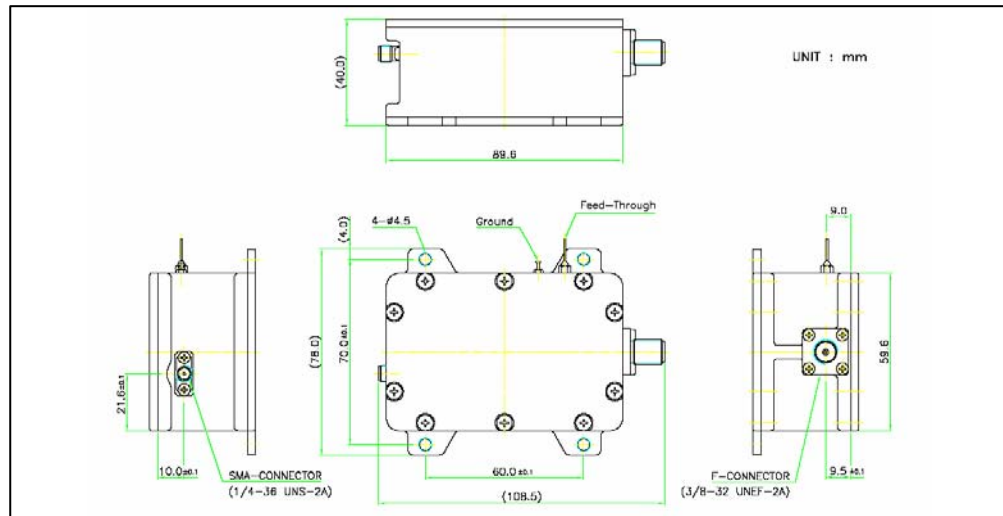


Ku-Band PLL BDC (Block Down Converter) Applications

SM-270 series

Outline Drawing



Model No & Frequency, Stability

Model No	Input Freq.(GHz)	Output Freq.(MHz)	L.O freq. & Stab.
SM-271	10.70 – 11.70	950 – 1950	9.75GHz +/-25KHz
SM-272	10.95 – 11.70	950 – 1700	10.0GHz +/-25KHz
SM-273	11.70 – 12.75	950 – 2000	10.75GHz +/-25KHz
SM-274	12.25 – 12.75	950 – 1450	11.3GHz +/-25KHz

Specifications

Parameter	Specification
Noise figure (@+25°C)	15 dB max.
Input VSWR	2.2 : 1 max.
Image rejection	40 dBc min.
Conversion gain	20dB typ. 18dB min. 22dB max.
Output VSWR	2.2 : 1 max.
Gain flatness	4 dBp-p max.
Gain ripple (@per 27 MHz segment)	1 dB max.
1dB gain compression point	+5 dBm min.
Output impedance	50, 75 ohms
Leakage (@ input port)	-45 dBm max.
Phase noise	-70 dBc/Hz @1KHz offset -80 dBc/Hz @10KHz offset -95 dBc/Hz @100KHz offset
Power supply	+12 to +24V DC
Required current	300 mA max.
Operating temperature	-40°C to +60°C
Storage temperature	-40°C to +80°C
Relative humidity	0% to 95% RH
RF Input connector	SMA female
IF output connector	N, F-type female
Weight	450 g



A-Telecom Co., Ltd.
 22-4, Palyong-Dong, Changwon, Kyungnam, Korea 641-847
 Tel : 82-55-299-8550, Fax : 82-55-299-8552
<http://www.a-tele.com>, E-Mail : a-tele@a-tele.com