



Ku-band Transmitter 0.5W/1.0W Type

MODEL NO. NJT5012 / 12F

MODEL NO. NJT5013 / 13F

<Description>

This unit is the fixed gain transmitter incorporating a low phase noise Phase Locked Local Oscillator and a high reliable MMIC High Power Amplifier, and converts L Band (950 to 1,450 MHz) IF Input to Ku Band (14.0 to 14.5 GHz) RF Output.

Both of Linear 0.5W / 1.0 W Output Power options are available.

<Line-Up>

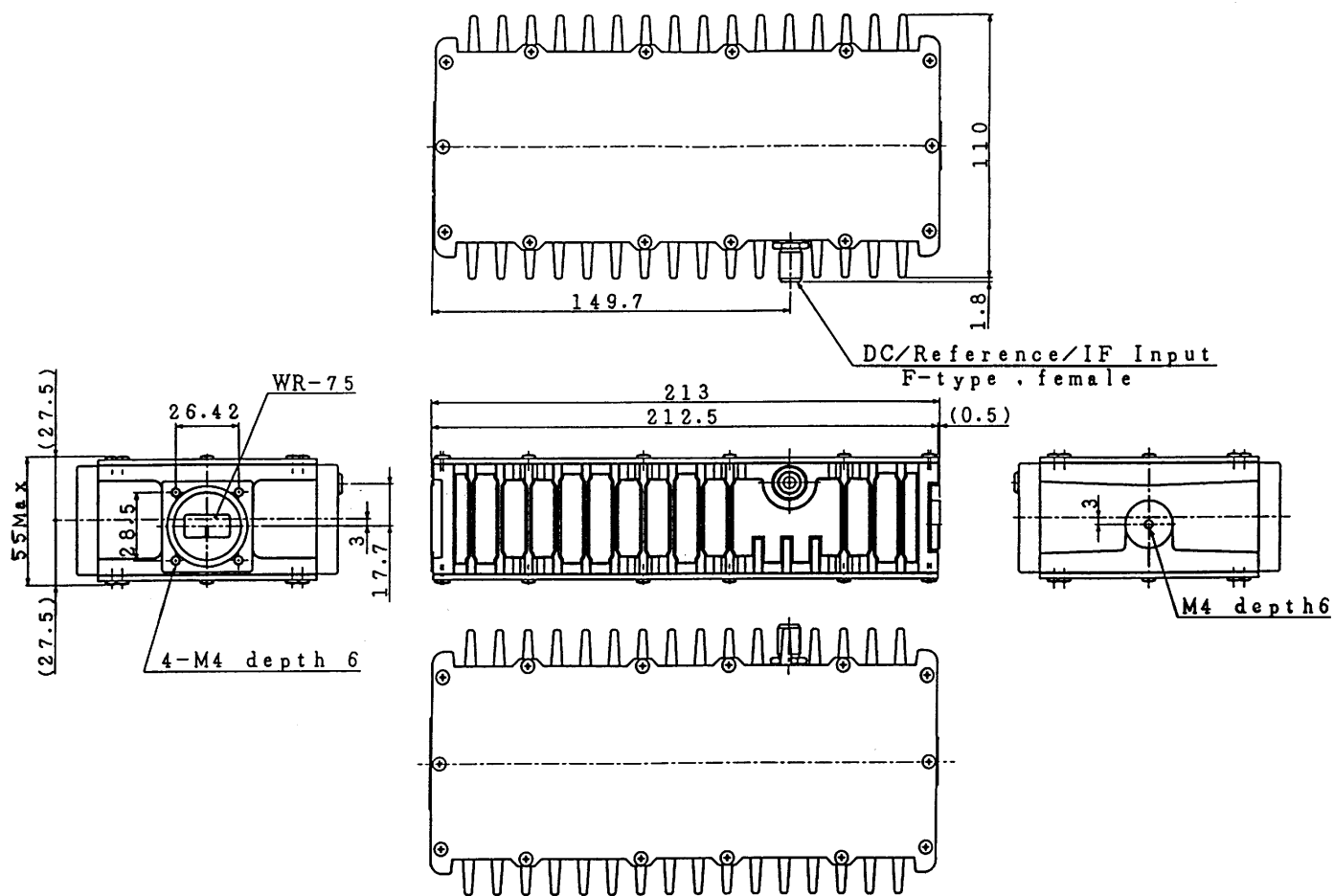
Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power
NJT5012 /12F	14.0 to 14.5 GHz	13.05 GHz	950 to 1,450 MHz	0.5 W Linear
NJT5013 /13F				1.0 W Linear

<Specifications>

Item	Specifications
Output Power	+27 dBm [Model No. NJT5012 / NJT5012F] +30 dBm [Model No. NJT5013 / NJT5013F]
Phase Noise (SSB)	-60 dBc/Hz max. @ 100 Hz -70 dBc/Hz max. @ 1 kHz -80 dBc/Hz max. @ 10 kHz -90 dBc/Hz max. @ 100 kHz
Required External Reference Signal	Frequency : 10 MHz Input Power : -5 to +5 dBm Phase Noise : -135 dBc/Hz max. @ 100 Hz -140 dBc/Hz max. @ 1 kHz -143 dBc/Hz max. @ 10 kHz -143 dBc/Hz max. @ 100 kHz
Input Interface	N-type, female (50 ohm) [Model No. NJT5012 / NJT5013] F-type, female (75 ohm) [Model No. NJT5012F / NJT5013F]
Input / Output V.S.W.R.	2.0:1 max. @ Input 2.0:1 max. @ Output
Mute	Shut off the HPA in case of LO unlocked
Power Requirement	+15 to +24 V dc
Power Consumption	1.6 A max. @15 V



<Outline Drawing>



Unit: mm



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