PRODUCT DATASHEET

TPS-E Public Safety Tapper Series

Public Safety Tapper/Unequal Divider for Wireless & Indoor Application, Support VHF, UHF, TETRA, and 700-900MHz Public Safety Bands with various coupling value from 3dB to 20dB

PRODUCT DESCRIPTION

RFS Technologies TPS-E Public Safety series Tapper/Unequal Divider have been designed for a variety of wireless applications covering VHF, UHF, TETRA and 700 to 900MHz Public Safety bands. The innovative asymmetric design ensures an excellent input VSWR and coupling flatness across the specified bands. The unit couples off a defined fraction of a RF signal from 3 to 20 dB with minimal reflections or loss. The broad frequency range is ideally suited for Public Safety systems.

FEATURES / BENEFITS

- **Public Safety bands 137MHz-960MHz**
- N Female Interface
- PIM Optimized Design (161dBc @2x43dBm)
- Low Insertion Loss
- High Power Handling
- Small Size, Low Weight
- Bracket supplied

TECHNICAL FEATURES

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	137-960
Power Rating	W	500
Peak Power	W	3000
PIM 3rd @2*43 dBm	dBc	161
Input Impedance	Ohm	50

MECHANICAL SPECIFICATIONS

Connectors		N Female
Dimensions, L*W*H	mm(in)	102.11*40.74*50.8 (4.02*1.6*2)
Net Weight ±10%	kg (lb)	0.38(0.84)
Temperature Range	°C	-35 to +75 (+160 for 2hours in an event of fire, encased in DragonSkin Cabinet)
IP Level		IP67
RoHS		Compliant

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

PRODUCT DATASHEET

TPS-E Public Safety Tapper Series

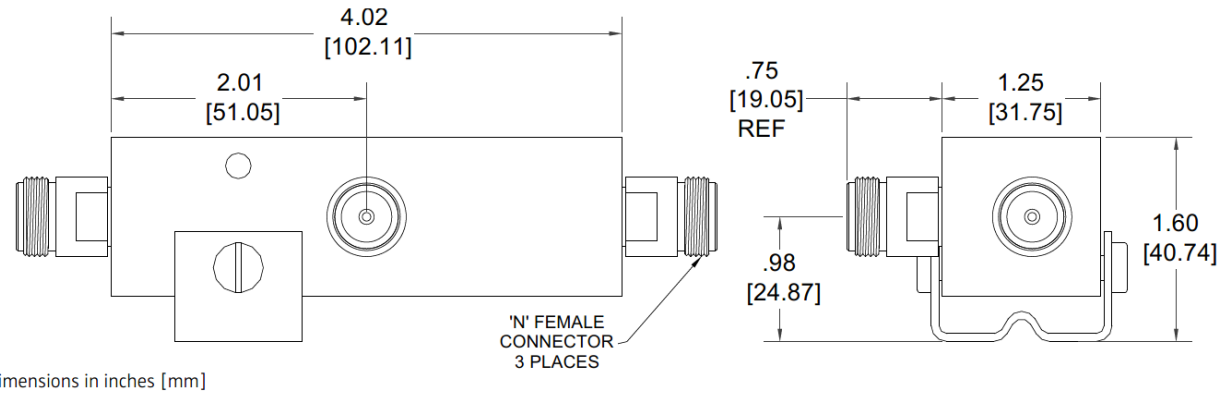
Public Safety Tapper/Unequal Divider for Wireless & Indoor Application, Support VHF, UHF, TETRA, and 700-900MHz Public Safety Bands with various coupling value from 3dB to 20dB

MODEL NUMBER SPECIFICATIONS

Model Number		TPS3E-137/960	TPS6E-137/960	TPS10E-137/960	TP15E-137/960
VSWR		1.4:1@147-380MHz 1.3:1@380-960MHz	1.3:1@147-380MHz 1.25:1@380-960MHz	1.2:1@147-380MHz 1.2:1@380-960MHz	1.2:1@147-380MHz 1.2:1@380-960MHz
Coupling Loss	dB	3.0	6.0	10.0	15.0
Coupling to Branch arm	dB	-6.3+/-0.7@137-200MHz -5.8+/-0.6@200-250MHz -5.4+/-0.6@250-380MHz -5.1+/-0.6@380-520MHz -4.8+/-0.5@698-960MHz	-8.1+/-0.7@137-200MHz -7.6+/-0.6@200-250MHz -7.3+/-0.6@250-380MHz -7.0+/-0.6@380-520MHz -6.5+/-0.5@698-960MHz	-11.0+/-0.8@137-200MHz -10.7+/-0.7@200-250MHz -10.3+/-0.7@250-380MHz -10.1+/-0.7@380-520MHz -9.9+/-0.5@698-960MHz	-16.0+/-0.8@137-200MHz -15.6+/-0.8@200-250MHz -15.5+/-0.8@250-380MHz -15.2+/-0.8@380-520MHz -15.4+/-0.5@698-960MHz
Output Split, Main/Branch	dB	-1.8/-4.8	-1.0/-7.0	-0.4/-10.4	-0.1/-15.1

MODEL NUMBER SPECIFICATIONS

Model Number		TPS20E-137/960
VSWR		1.2:1@147-380MHz 1.2:1@380-960MHz
Coupling Loss	dB	20.0
Coupling to Branch arm	dB	-20.3+/-1.0@137-200MHz -20.1+/-1.0@200-250MHz -20.0+/-1.0@250-380MHz -20.1+/-1.0@380-520MHz -20.1+/-0.8@698-960MHz
Output Split, Main/Branch	dB	-0.1/-20.1



Dimensions in inches [mm]

External Document Links

LINK to VEX FILES

Notes

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering