

SMI 70/...

450 MHz Ceramic Microplexer

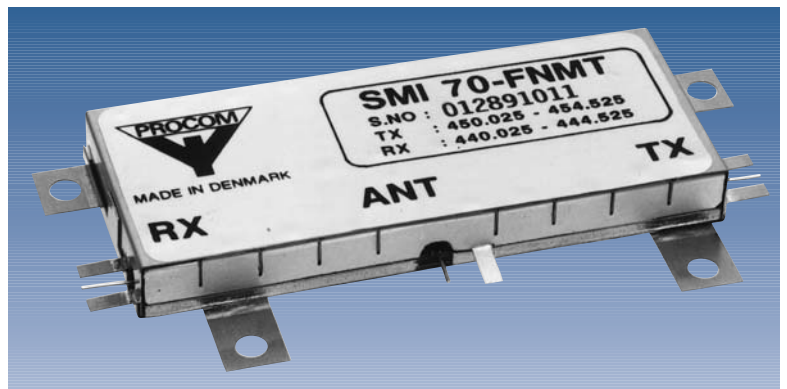


DESCRIPTION:

- ★ Extremely small and lightweight ceramic duplexer (Extremely small: only 12 cm³!).
- ★ Ideal for integration in portable 450 MHz cellular radio telephones.
- ★ Low insertion loss by use of high-performance ceramic materials and computer optimized interconnection networks.
- ★ Rugged mechanical design and low temperature drift.
- ★ High power handling – handles 30 watts at 85° C when mounted on a 40 cm² heatsink!
- ★ Designed for direct drop-in on microstrip PCB.
- ★ Coplanar terminals save space and provide ease-of-manufacturing and a non-discontinuity interface to the PCB.
- ★ Rejection of image frequency of receiver.
- ★ Environment proof.
- ★ Versions available for NMT-450, R2000, SFR and C-net. Request quotation for other systems.

COMMON SPECIFICATIONS:

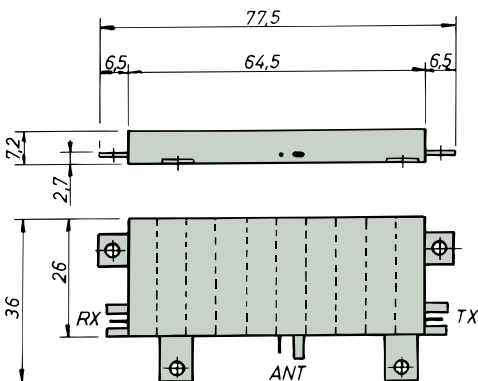
ELECTRICAL	
MODEL	SMI 70/...
MAX. INPUT POWER	6 watts without heatsink 30 watts with heatsink
IMPEDANCE	Nom. 50 Ω
MECHANICAL	
TEMP. RANGE	-30° C → +85° C
CONNECTIONS	Drop-in, coplanar
TOTAL DIMENSIONS (L x W x H)	77.5 x 36 x 7.3 mm
HOUSING ONLY (L x W x H)	64.5 x 26 x 7.3 mm
WEIGHT	Approx. 50 g



SPECIFICATIONS:

MODEL	SMI 70/NMT		SMI 70/R2000		SMI 70/SFR	
CELLULAR SYSTEM	Scandinavian NMT-450		Radiocom 2000 (France)		SFR (NMT-F) (France)	
TX FREQUENCY	453.0-457.5 MHz		414.8-418.0 MHz		450.0-454.5 MHz	
RX FREQUENCY	463.0-467.5 MHz		424.8-428.0 MHz		440.0-444.5 MHz	
BRANCH	TX → Ant.	Ant. → RX	TX → Ant.	Ant. → RX	TX → Ant.	Ant. → RX
INSERTION LOSS IN PASSBAND	≤ 2.8 dB	≤ 4.7 dB	≤ 2.4 dB	≤ 4.2 dB	≤ 2.7 dB	≤ 4.6 dB
ATTENUATION IN STOPBAND	> 50 dB	> 60 dB	> 50 dB	> 60 dB	> 50 dB	> 60 dB
SWR	≤ 1.5	≤ 1.7	≤ 1.5	≤ 1.7	≤ 1.5	≤ 1.7
OUT OF BAND REJECTION	2. harm.: > 50 dB 3. harm.: > 50 dB 4. harm.: > 40 dB	< 225 MHz: > 10 dB 443-453 MHz: > 47 dB 1-3.5 GHz: > 50 dB 3.5-6 GHz: > 25 dB	2. harm.: > 50 dB 3. harm.: > 50 dB 4. harm.: > 40 dB	< 200 MHz: > 10 dB 405-415 MHz: > 47 dB 1-3.5 GHz: > 50 dB 3.5-6 GHz: > 25 dB	2. harm.: > 50 dB 3. harm.: > 50 dB 4. harm.: > 40 dB	< 225 MHz: > 10 dB 455-465 MHz: > 47 dB 1-3.5 GHz: > 50 dB 3.5-6 GHz: > 25 dB

FUNCTIONAL DIMENSIONS:



Detailed installation drawing available upon request.

MODEL SURVEY:

PART NO.	CELLULAR SYSTEM
SMI 70/NMT	NMT-450
SMI 70/R2000	Radiocom 2000
SMI 70/SFR	SFR (NMT-F)

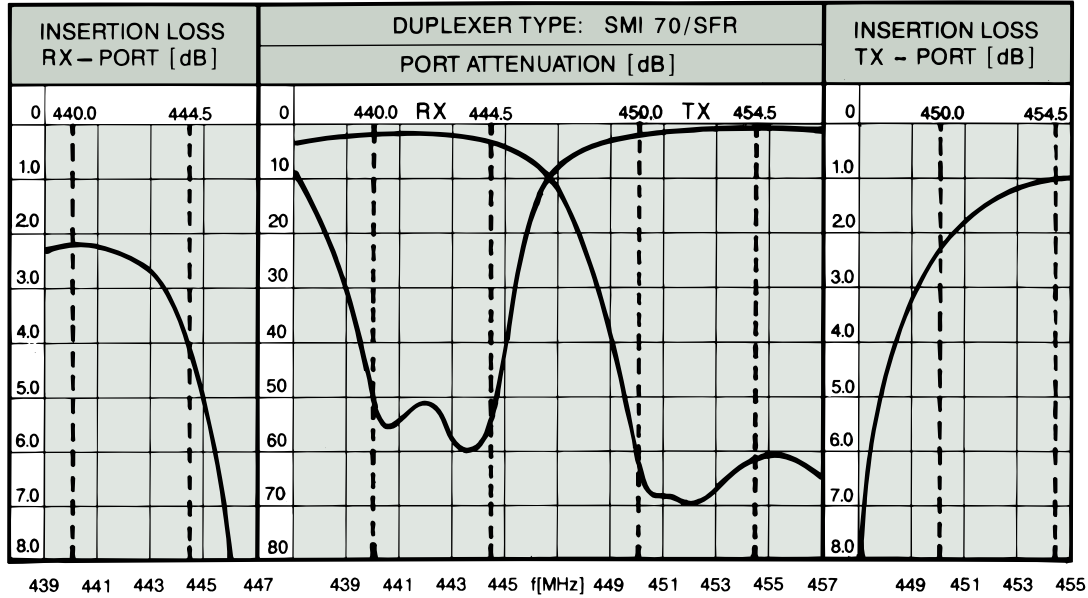
PROCOM A/S reserve the right to amend specifications without prior notice.

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TYPICAL RESPONSE CURVES:



TYPICAL RESPONSE CURVES:

