

# FIXED ATTENUATORS

50 Ω

Surface Mount

## 1W MINIATURE CERAMIC 1 to 30 dB, DC to 7000 MHz



PAT

MODEL NO. ◆	FREQ. RANGE (MHz) $f_L$ - $f_U$	ATTENUATION (dB) FLATNESS, Max.			VSWR (:1) Max.			POWER (W)	CASE STYLE Note B	CON- NECT- ION	PRICE \$ Qty. (10-49)	
		Nom.	$\underline{L}$	$\underline{M}$	$\underline{U}$	$\underline{L}$	$\underline{M}$					$\underline{U}$
PAT-1	DC-7000	1±0.2	0.3	0.4	0.7	1.2	1.3	1.4	1	AF320	hl	2.95
PAT-2	DC-7000	2±0.2	0.3	0.5	0.9	1.2	1.3	1.4	1	AF320	hl	2.95
PAT-3	DC-7000	3±0.3	0.3	0.5	0.9	1.2	1.3	1.4	1	AF320	hl	2.95
PAT-4	DC-7000	4±0.3	0.3	0.5	0.9	1.2	1.3	1.4	1	AF320	hl	2.95
PAT-5	DC-7000	5±0.3	0.3	0.5	1.0	1.2	1.3	1.4	1	AF320	hl	2.95
PAT-6	DC-7000	6±0.3	0.3	0.5	1.1	1.2	1.3	1.4	1	AF320	hl	2.95
PAT-7	DC-7000	7±0.3	0.4	0.6	1.3	1.3	1.4	1.5	1	AF320	hl	2.95
PAT-8	DC-7000	8±0.4	0.4	0.6	1.5	1.3	1.4	1.5	1	AF320	hl	2.95
PAT-9	DC-7000	9±0.4	0.4	0.6	1.7	1.3	1.4	1.5	1	AF320	hl	2.95
PAT-10	DC-7000	10±0.4	0.4	0.6	1.7	1.3	1.4	1.5	1	AF320	hl	2.95
PAT-12	DC-7000	12±0.6	0.5	0.6	1.8	1.3	1.4	1.5	1	AF320	hl	2.95
PAT-15	DC-7000	15±0.6	0.5	0.7	2.4	1.3	1.4	1.5	1	AF320	hl	2.95
PAT-20	DC-7000	20±1.3	0.5	0.7	2.6	1.4	1.4	1.5	1	AF320	hl	2.95
PAT-30	DC-7000	30±1.7	0.4	0.9	2.8	1.4	1.4	1.5	1	AF320	hl	2.95

$\underline{L}$  = DC-1000 MHz

$\underline{M}$  = DC-2500 MHz

$\underline{U}$  = DC- $f_U$

### features

- low-cost ceramic package
- wideband DC-7 GHz frequency coverage
- excellent VSWR throughout entire band
- miniature size

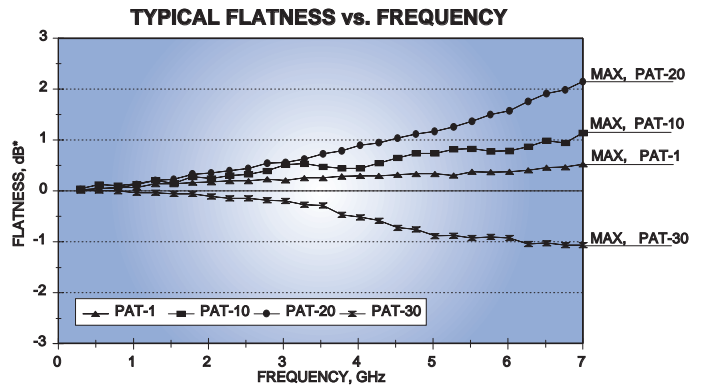
### marking code:

2 digits for nominal  
attenuation value.

examples: 03 for PAT-3, 20 for PAT-20

### NOTES:

- ◆ PAT models, aqueous washable
- A. Environmental specifications and re-flow soldering informations available in General Information Section.
- B. Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes see :Case Styles & Outline Drawings".
- C. Prices and specifications subject to change without notice.
  1. RF power at 25° C case temp.: 1 Watt.
  2. Attenuation and VSWR at 25° C case temp.



\*0 dB on flatness graph corresponds to actual low frequency attenuation value.

### NSN GUIDE

MCL NO.	NSN
PAT-3	5985-01-460-6040
PAT-6	5985-01-460-6042
PAT-10	5985-01-460-6045
PAT-15	5985-01-460-6043

### designers kits available

KIT No.	No. of Units in KIT	Description	Price \$ per KIT
K1-PAT	20	4 of each: PAT-3,6,10,15,20	49.95

### pin connections

see case style outline drawings

PORT	hl
INPUT	1
OUTPUT	3
GND	2,4



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# Coaxial, 50 Ω, N-type

**1/2W** 1 to 20 dB, DC to 6000 MHz

**NEW!**



UNAT

MODEL NO.	FREQ. RANGE (MHz) f <sub>l</sub> -f <sub>u</sub>	ATTENUATION** (dB)					VSWR (:1)			POWER* (W)	CASE STYLE Note B	PRICE \$ Qty. (1-9)		
		Nom.	L <sub>1</sub> Typ.	M <sub>1</sub> Typ.	U <sub>1</sub> Typ.	R Typ.	L <sub>1</sub> Typ. Max.	M <sub>1</sub> Typ. Max.	U <sub>1</sub> Typ.					
UNAT-1	DC-6000	1±0.3	0.20	0.15	0.10	0.45	1.05	1.20	1.10	1.43	1.40	0.5	FF779	15.95
UNAT-2	DC-6000	2±0.3	0.20	0.25	0.15	0.50	1.07	1.20	1.22	1.43	1.50	0.5	FF779	15.95
UNAT-3	DC-6000	3±0.3	0.20	0.10	0.10	0.35	1.05	1.20	1.22	1.43	1.50	0.5	FF779	15.95
UNAT-4	DC-6000	4±0.3	0.15	0.15	0.10	0.40	1.05	1.20	1.10	1.43	1.50	0.5	FF779	15.95
UNAT-5	DC-6000	5±0.3	0.15	0.15	0.10	0.35	1.05	1.20	1.10	1.43	1.50	0.5	FF779	15.95
UNAT-6	DC-6000	6±0.3	0.15	0.15	0.15	0.40	1.05	1.20	1.20	1.43	1.50	0.5	FF779	15.95
UNAT-7	DC-6000	7±0.3	0.10	0.10	0.15	0.20	1.05	1.20	1.10	1.43	1.50	0.5	FF779	15.95
UNAT-8	DC-6000	8±0.3	0.10	0.10	0.10	0.10	1.05	1.20	1.10	1.43	1.50	0.5	FF779	15.95
UNAT-9	DC-6000	9±0.3	0.15	0.10	0.10	0.15	1.05	1.20	1.10	1.43	1.50	0.5	FF779	15.95
UNAT-10	DC-6000	10±0.3	0.10	0.20	0.20	0.40	1.15	1.35	1.20	1.50	1.50	0.5	FF779	15.95
UNAT-12	DC-6000	12±0.3	0.15	0.20	0.15	0.35	1.15	1.25	1.20	1.80	1.80	0.5	FF779	15.95
UNAT-15	DC-6000	15±0.3	0.20	0.35	0.20	0.60	1.15	1.43	1.20	1.80	1.70	0.5	FF779	15.95
UNAT-20	DC-6000	20±0.3	0.25	0.45	0.40	0.75	1.15	1.25	1.20	1.43	1.50	0.5	FF779	15.95

L<sub>1</sub> = DC-3000 MHz

M<sub>1</sub> = 3000 - 4500 MHz

U<sub>1</sub> = 4500 - 6000 MHz

R = DC-f<sub>u</sub>

## features

- wideband coverage, DC to 6000 MHz
- rugged construction
- 0.5 watt rating
- off-the-shelf availability
- very low-cost
- patent pending

## applications

- impedance matching
- signal level adjustment

## NOTES:

- \* 0.5 watt at 70°C ambient derate linearly 0.015W/°C above 70°C.
- \*\* Attenuation varies by 0.3 dB max. over temperature.
- \*\*\* Flatness= variation overband divided by 2
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in General Information (Section 0).
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & outline drawings".
- C. Prices and specifications subject to change without notice.
- 1. Operating and storage temperature: -40°C to 100°C



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